

				Non-Flame Retardant						
Property		Units	Test Method	Test Condition	200H	300H	400H	500H	600H	1000H
Physical	Specific Gravity		ISO 1183	23°C	1.06	1.06	1.06	1.06	1.06	1.07
	Moisture Absorption	%	ISO 62	Immersion for 24 hours	0.06	0.06	0.06	0.06	0.06	0.06
Thermal	Flammability		UL 94	1.6mm	HB	HB	HB	HB	HB	Eq. to HB
	Temperature of Deflection Under Load(DTUL)	°C	ISO 75-1	1.80MPa	83	94	104	114	124	164
			ASTM D 648	1.82MPa	90	100	110	120	130	170
	Coefficient of Linear Thermal Expansion	mm/mm/°C	ISO 11359	-30°C~65°C	7.5×10 ⁻⁵	7.5×10 ⁻⁵	7.5×10 ⁻⁵	7.0×10 ⁻⁵	7.0×10 ⁻⁵	6.5×10 ⁻⁵
Moulding Shrinkage	%	ASAHIKASEI	150×150×2mm	0.50-0.70	0.50-0.70	0.50-0.70	0.50-0.70	0.50-0.70	0.80-1.00	
			120×80×3mm							
Electrical	Dielectric Constant		IEC 60250	100Hz	2.8	2.8	2.8	2.8	2.8	2.8
				1MHz	2.8	2.8	2.8	2.8	2.8	2.8
	Dissipation Factor		IEC 60250	100Hz	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005
				1MHz	0.0006	0.0006	0.0006	0.0006	0.0006	0.0006
	Volume Resistivity	Ohm-cm	IEC 60093	23°C 50% RH	10 ¹⁶					
	Surface Resistivity	Ohm	IEC 60093	23°C 50% RH	10 ¹⁶					
Dielectric Strength	kV/mm	IEC 60243	Short time. 2mm	29	29	29	30	30	30	
Mechanical	Tensile Strength	MPa	ISO 527	23°C 50% RH	39	39	43	47	60	72
	(Nominal) Tensile Strain	%	ISO 527	23°C 50% RH	(20)	(24)	(24)	(24)	(20)	(20)
	Flexural Strength	MPa	ISO 178	23°C 50% RH	50	66	72	78	87	109
	Flexural Modulus	MPa	ISO 178	23°C 50% RH	2230	2320	2370	2430	2480	2540
	Charpy Impact Strength	KJ/m ²	ISO 179	4mm 23°C(Notched)	19	19	18	17	14	6
Molding Conditions	Resin Temperature	°C			220-270	240-280	240-290	240-290	250-300	280-320
	Mold Temperature	°C			40-70	50-80	50-80	50-80	60-90	80-120
	Pre-Drying Temperature	°C			80-90	90-100	90-100	90-100	90-100	100-120
	Pre-Drying Time	Hr			2-4	2-4	2-4	2-4	2-4	2-4
Remark										

Data shown are typical values obtained by proper testing methods and should not be used for specification purpose.
 Please use these data for selecting the most appropriate grade suitable for specific usage.
 These data may be changed because of improvement in properties.

Do not use XYRON™ in any of the following orally- or medically-related applications.
 - Orally-related applications : any part, device or component which may come into direct oral contact or into direct contact with drinking foods or beverages. For drinking water application, please consult Asahi Kasei Chemicals Corporation.
 - Medically-related applications : any part, or component which may be used intracorporeally or which may in dialysis or other processes come into direct or indirect contact with body tissue, body fluids, or transfusion fluids.

				Flame Retardant				
Property		Units	Test Method	Test Condition	1950J	100V	240W	240V
					1951J	100Z		240Z
Physical	Specific Gravity		ISO 1183	23°C	1.11	1.08	1.08	1.08
	Moisture Absorption	%	ISO 62	Immersion for 24 hours	0.10	0.10	0.10	0.10
Thermal	Flammability		UL 94	1.6mm	V-1/2.3mm*	V-1	V-2	V-1
					V-1/2.0mm**	V-0*		V-0*
	Temperature of Deflection Under Load(DTUL)	°C	ISO 75-1	1.80MPa	70	78	83	83
			ASTM D 648	1.82MPa	76	85	90	90
	Coefficient of Linear Thermal Expansion	mm/mm/°C	ISO 11359	-30°C~65°C	8.0×10 ⁻⁵	8.0×10 ⁻⁵	7.5×10 ⁻⁵	7.5×10 ⁻⁵
Moulding Shrinkage	%	ASAHIKASEI	150×150×2mm	0.50-0.70	0.50-0.70	0.50-0.70	0.50-0.70	
			120×80×3mm					
Electrical	Dielectric Constant		IEC 60250	100Hz	2.9	2.9	2.9	2.9
				1MHz	2.9	2.9	2.9	2.9
	Dissipation Factor		IEC 60250	100Hz	0.0030	0.0030	0.0030	0.0030
				1MHz	0.0040	0.0040	0.0040	0.0040
	Volume Resistivity	Ohm-cm	IEC 60093	23°C 50% RH	10 ¹⁶	10 ¹⁶	10 ¹⁶	10 ¹⁶
	Surface Resistivity	Ohm	IEC 60093	23°C 50% RH	10 ¹⁶	10 ¹⁶	10 ¹⁶	10 ¹⁶
Dielectric Strength	kV/mm	IEC 60243	Short time. 2mm	29	29	29	29	
Mechanical	Tensile Strength	MPa	ISO 527	23°C 50% RH	37	37	41	49
	(Nominal) Tensile Strain	%	ISO 527	23°C 50% RH	(30)	(30)	(21)	(10)
	Flexural Strength	MPa	ISO 178	23°C 50% RH	66	66	71	80
	Flexural Modulus	MPa	ISO 178	23°C 50% RH	2350	2370	2250	2300
	Charpy Impact Strength	KJ/m ²	ISO 179	4mm 23°C(Notched)	12	16	14	15
Molding Conditions	Resin Temperature	°C			220-280	220-270	220-270	220-270
	Mold Temperature	°C			40-70	40-70	40-70	40-70
	Pre-Drying Temperature	°C			70-80	70-80	80-90	80-90
	Pre-Drying Time	Hr			2-4	2-4	2-4	2-4
Remark					* 5VB/2.5mm ** 5VB/2.0mm	* 5VA/3.0mm		* 5VA/2.5mm

Data shown are typical values obtained by proper testing methods and should not be used for specification purpose.
Please use these data for selecting the most appropriate grade suitable for specific usage.
These data may be changed because of improvement in properties.

Do not use XYRON™ in any of the following orally- or medically-related applications.
- Orally-related applications : any part, device or component which may come into direct oral contact or into direct contact with drinking foods or beverages. For drinking water application, please consult Asahi Kasei Chemicals Corporation.
- Medically-related applications : any part, or component which may be used intracorporeally or which may in dialysis or other processes come into direct or indirect contact with body tissue, body fluids, or transfusion fluids.

					Flame Retardant				
Property		Units	Test Method	Test Condition	340W	340V			540V
						340Z	440Z	PV40Z	540Z
Physical	Specific Gravity		ISO 1183	23°C	1.08	1.08	1.08	1.09	1.08
	Moisture Absorption	%	ISO 62	Immersion for 24 hours	0.10	0.10	0.10	0.10	0.10
Thermal	Flammability		UL 94	1.6mm	V-2	V-1			V-1
	Temperature of Deflection Under Load(DTUL)	°C	ISO 75-1	1.80MPa	94	94	104	106	114
			ASTM D 648	1.82MPa	100	100	110		120
	Coefficient of Linear Thermal Expansion	mm/mm/°C	ISO 11359	-30°C~65°C	7.5×10 ⁻⁵	7.5×10 ⁻⁵	7.0×10 ⁻⁵	7.0×10 ⁻⁵	7.0×10 ⁻⁵
Moulding Shrinkage	%	ASAHIKASEI	150×150×2mm	0.50-0.70	0.50-0.70	0.50-0.70	0.50-0.70	0.50-0.70	
			120×80×3mm						
Electrical	Dielectric Constant		IEC 60250	100Hz	2.9	2.9	2.9	2.9	2.9
				1MHz	2.9	2.9	2.9	2.9	2.9
	Dissipation Factor		IEC 60250	100Hz	0.0030	0.0030	0.0030	0.006	0.0030
				1MHz	0.0040	0.0040	0.0040	0.008	0.0040
	Volume Resistivity	Ohm-cm	IEC 60093	23°C 50% RH	10 ¹⁶	10 ¹⁶	10 ¹⁶		10 ¹⁶
Surface Resistivity	Ohm	IEC 60093	23°C 50% RH	10 ¹⁶	10 ¹⁶	10 ¹⁶		10 ¹⁶	
Dielectric Strength	kV/mm	IEC 60243	Short time. 2mm	29	29	29		29	
Mechanical	Tensile Strength	MPa	ISO 527	23°C 50% RH	44	54	57	56	60
	(Nominal) Tensile Strain	%	ISO 527	23°C 50% RH	(21)	(13)	(13)	18	(13)
	Flexural Strength	MPa	ISO 178	23°C 50% RH	72	88	95	88	98
	Flexural Modulus	MPa	ISO 178	23°C 50% RH	2270	2390	2400	2060	2430
	Charpy Impact Strength	KJ/m ²	ISO 179	4mm 23°C(Notched)	15	15	15	46	15
Molding Conditions	Resin Temperature	°C			240-280	240-280	240-290	290-320	240-300
	Mold Temperature	°C			50-80	50-80	50-80	60-100	50-80
	Pre-Drying Temperature	°C			90-100	90-100	90-100	90-100	90-100
	Pre-Drying Time	Hr			2-4	2-4	2-4	2-4	2-4
Remark						* 5VA/2.5mm		* 5VA/2.5mm * (f1) BK	* 5VA/2.5mm * (f1) BK

Data shown are typical values obtained by proper testing methods and should not be used for specification purpose.
Please use these data for selecting the most appropriate grade suitable for specific usage.
These data may be changed because of improvement in properties.

Do not use XYRON™ in any of the following orally- or medically-related applications.
- Orally-related applications : any part, device or component which may come into direct oral contact or into direct contact with drinking foods or beverages. For drinking water application, please consult Asahi Kasei Chemicals Corporation.
- Medically-related applications : any part, or component which may be used intracorporeally or which may in dialysis or other processes come into direct or indirect contact with body tissue, body fluids, or transfusion fluids.

				Flame Retardant				
Property		Units	Test Method	Test Condition	640V		740V	
					640Z	644Z		SZ800
Physical	Specific Gravity		ISO 1183	23°C	1.08	1.09	1.08	1.10
	Moisture Absorption	%	ISO 62	Immersion for 24 hours	0.10	0.10	0.10	0.08
Thermal	Flammability		UL 94	1.6mm	V-1		V-1	
					V-0*	V-0*		V-0
	Temperature of Deflection Under Load(DTUL)	°C	ISO 75-1	1.80MPa	124	129	134	144
			ASTM D 648	1.82MPa	130		140	150
	Coefficient of Linear Thermal Expansion	mm/mm/°C	ISO 11359	-30°C~65°C	7.0×10 ⁻⁵	7.0×10 ⁻⁵	7.0×10 ⁻⁵	6.5×10 ⁻⁵
Moulding Shrinkage	%	ASAHIKASEI	150×150×2mm	0.50-0.70	0.50-0.80	0.50-0.70	0.80-1.00	
			120×80×3mm					
Electrical	Dielectric Constant		IEC 60250	100Hz	2.9		2.9	2.8
				1MHz	2.9		2.9	2.8
	Dissipation Factor		IEC 60250	100Hz	0.0030		0.0030	0.0027
				1MHz	0.0040		0.0040	0.0027
	Volume Resistivity	Ohm-cm	IEC 60093	23°C 50% RH	10 ¹⁶		10 ¹⁶	10 ¹⁶
	Surface Resistivity	Ohm	IEC 60093	23°C 50% RH	10 ¹⁶		10 ¹⁶	10 ¹⁶
Dielectric Strength	kV/mm	IEC 60243	Short time. 2mm	29		29	30	
Mechanical	Tensile Strength	MPa	ISO 527	23°C 50% RH	65	74	69	76
	(Nominal) Tensile Strain	%	ISO 527	23°C 50% RH	(18)	(9)	(21)	(35)
	Flexural Strength	MPa	ISO 178	23°C 50% RH	100	110	106	109
	Flexural Modulus	MPa	ISO 178	23°C 50% RH	2470	2440	2470	2480
	Charpy Impact Strength	KJ/m ²	ISO 179	4mm 23°C(Notched)	13	21	13	18
Molding Conditions	Resin Temperature	°C			250-320	260-320	250-320	280-320
	Mold Temperature	°C			60-90	60-100	60-100	80-120
	Pre-Drying Temperature	°C			90-100	90-100	90-100	100-120
	Pre-Drying Time	Hr			2-4	2-4	2-4	2-4
Remark					* 5VA/2.0mm * (f1) BK	* 5VA/2.0mm * (f1) BK RTI:125°C		

Data shown are typical values obtained by proper testing methods and should not be used for specification purpose.
Please use these data for selecting the most appropriate grade suitable for specific usage.
These data may be changed because of improvement in properties.

Do not use XYRON™ in any of the following orally- or medically-related applications.
- Orally-related applications : any part, device or component which may come into direct oral contact or into direct contact with drinking foods or beverages. For drinking water application, please consult Asahi Kasei Chemicals Corporation.
- Medically-related applications : any part, or component which may be used intracorporeally or which may in dialysis or other processes come into direct or indirect contact with body tissue, body fluids, or transfusion fluids.

				Glass Fiber Reinforced			Flame Retardant, Glass Fiber Reinforced			
Property		Units	Test Method	Test Condition	G701H	G702H	G703H	G701V	G702V	G703V
Physical	Specific Gravity		ISO 1183	23°C	1.14	1.20	1.30	1.15	1.22	1.32
	Moisture Absorption	%	ISO 62	Immersion for 24 hours	0.06	0.06	0.06	0.06	0.06	0.06
Thermal	Flammability		UL 94	1.6mm	HB	HB	HB	V-1*	V-1	V-1
	Temperature of Deflection Under Load(DTUL)	°C	ISO 75-1	1.80MPa	128	139	139	128	139	139
			ASTM D 648	1.82MPa	130	140	140	130	140	140
	Coefficient of Linear Thermal Expansion	mm/mm/°C	ISO 11359	-30°C~65°C	6.0×10 ⁻⁵	5.0×10 ⁻⁵	4.0×10 ⁻⁵	6.0×10 ⁻⁵	5.0×10 ⁻⁵	4.0×10 ⁻⁵
Moulding Shrinkage	%	ASAHIKASEI	150×150×2mm	0.35-0.50	0.25-0.50	0.20-0.45	0.35-0.50	0.25-0.50	0.20-0.45	
			120×80×3mm							
Electrical	Dielectric Constant		IEC 60250	100Hz	2.9	3.1	3.3	3.0	3.2	3.4
				1MHz	2.9	3.1	3.3	3.0	3.2	3.4
	Dissipation Factor		IEC 60250	100Hz	0.0004	0.0006	0.0009	0.0020	0.0030	0.0050
				1MHz	0.0008	0.0011	0.0015	0.0030	0.0050	0.0080
	Volume Resistivity	Ohm-cm	IEC 60093	23°C 50% RH	10 ¹⁶	10 ¹⁶	10 ¹⁶	10 ¹⁶	10 ¹⁶	10 ¹⁶
	Surface Resistivity	Ohm	IEC 60093	23°C 50% RH	10 ¹⁶	10 ¹⁶	10 ¹⁶	10 ¹⁶	10 ¹⁶	10 ¹⁶
Dielectric Strength	kV/mm	IEC 60243	Short time. 2mm	41	43	44	41	43	40	
Mechanical	Tensile Strength	MPa	ISO 527	23°C 50% RH	72	102	117	75	102	117
	(Nominal) Tensile Strain	%	ISO 527	23°C 50% RH	3	2	2	3	2	2
	Flexural Strength	MPa	ISO 178	23°C 50% RH	130	162	181	140	162	181
	Flexural Modulus	MPa	ISO 178	23°C 50% RH	3760	5870	7370	4020	5870	7370
	Charpy Impact Strength	KJ/m ²	ISO 179	4mm 23°C(Notched)	10	11	12	9	11	12
Molding Conditions	Resin Temperature	°C			260-300	260-300	260-300	260-300	260-300	260-300
	Mold Temperature	°C			60-100	60-100	60-100	60-100	60-100	60-100
	Pre-Drying Temperature	°C			90-100	90-100	90-100	90-100	90-100	90-100
	Pre-Drying Time	Hr			2-4	2-4	2-4	2-4	2-4	2-4
Remark					GF 10%	GF 20%	GF 30%	GF 10% * 5VA/2.4mm	GF 20%	GF 30%

Data shown are typical values obtained by proper testing methods and should not be used for specification purpose.
Please use these data for selecting the most appropriate grade suitable for specific usage.
These data may be changed because of improvement in properties.

Do not use XYRON™ in any of the following orally- or medically-related applications.
 - Orally-related applications : any part, device or component which may come into direct oral contact or into direct contact with drinking foods or beverages. For drinking water application, please consult Asahi Kasei Chemicals Corporation.
 - Medically-related applications : any part, or component which may be used intracorporeally or which may in dialysis or other processes come into direct or indirect contact with body tissue, body fluids, or transfusion fluids.

				High-Stiffness, Low-Warp, High-Flow Chassis							
Property		Units	Test Method	Test Condition	L542V	L543V	X1744	L544V	L554V	L564V	L565V
Physical	Specific Gravity		ISO 1183	23°C	1.22	1.32	1.37	1.43	1.43	1.43	1.56
	Moisture Absorption	%	ISO 62	Immersion for 24 hours	0.06	0.06	0.05	0.06	0.06	0.06	0.06
Thermal	Flammability		UL 94	1.6mm	V-1	V-1	V-1*	V-1	V-1	V-1	V-1
	Temperature of Deflection Under Load(DTUL)	°C	ISO 75-1	1.80MPa	118	118	118	118	118	118	118
			ASTM D 648	1.82MPa	120	120	120	120	120	120	120
	Coefficient of Linear Thermal Expansion	mm/mm/°C	ISO 11359	-30°C~65°C	5.0×10 ⁻⁵	4.0×10 ⁻⁵	3.5×10 ⁻⁵	3.0×10 ⁻⁵	3.0×10 ⁻⁵	3.0×10 ⁻⁵	2.5×10 ⁻⁵
Moulding Shrinkage	%	ASAHIKASEI	150×150×2mm	0.25-0.50	0.20-0.45	0.15-0.43	0.10-0.40	0.10-0.40	0.10-0.40	0.10-0.25	
			120×80×3mm								
Electrical	Dielectric Constant		IEC 60250	100Hz	3.2	3.3	3.4	3.4	3.4	3.4	3.5
				1MHz	3.1	3.2	3.3	3.3	3.3	3.3	3.4
	Dissipation Factor		IEC 60250	100Hz	0.0040	0.0060	0.0070	0.0070	0.0070	0.0070	0.0080
				1MHz	0.0060	0.0080	0.0090	0.0090	0.0090	0.0090	0.0100
	Volume Resistivity	Ohm-cm	IEC 60093	23°C 50% RH	10 ¹⁶	10 ¹⁶	10 ¹⁶	10 ¹⁶	10 ¹⁶	10 ¹⁶	10 ¹⁶
Surface Resistivity	Ohm	IEC 60093	23°C 50% RH	10 ¹⁶	10 ¹⁶	10 ¹⁶	10 ¹⁶	10 ¹⁶	10 ¹⁶	10 ¹⁶	
Dielectric Strength	kV/mm	IEC 60243	Short time. 2mm								
Mechanical	Tensile Strength	MPa	ISO 527	23°C 50% RH	76	80	90	84	91	62	58
	(Nominal) Tensile Strain	%	ISO 527	23°C 50% RH	2	2	2	2	2	2	2
	Flexural Strength	MPa	ISO 178	23°C 50% RH	130	138	140	143	151	111	101
	Flexural Modulus	MPa	ISO 178	23°C 50% RH	5410	7060	7500	8840	8600	8410	11000
	Charpy Impact Strength	KJ/m ²	ISO 179	4mm 23°C(Notched)	5	5	5	5	5	3	2
Molding Conditions	Resin Temperature	°C			250-300	250-300	250-300	250-300	250-300	250-300	260-310
	Mold Temperature	°C			70-90	70-90	70-90	70-90	70-90	70-90	60-100
	Pre-Drying Temperature	°C			90-100	90-100	90-100	90-100	90-100	90-100	90-100
	Pre-Drying Time	Hr			2-4	2-4	2-4	2-4	2-4	2-4	2-4
Remark					Filler 20%	Filler 30%	Filler 35% * 5VA/2.2mm	Filler 40%	Filler 40%	Filler 40%	Filler 50%

Data shown are typical values obtained by proper testing methods and should not be used for specification purpose.
 Please use these data for selecting the most appropriate grade suitable for specific usage.
 These data may be changed because of improvement in properties.

Do not use XYRON™ in any of the following orally- or medically-related applications.
 - Orally-related applications : any part, device or component which may come into direct oral contact or into direct contact with drinking foods or beverages. For drinking water application, please consult Asahi Kasei Chemicals Corporation.
 - Medically-related applications : any part, or component which may be used intracorporeally or which may in dialysis or other processes come into direct or indirect contact with body tissue, body fluids, or transfusion fluids.

					High-Stiffness, Low-Warp, High-Flow Chassis				
Property		Units	Test Method	Test Condition					L654V
					L542Z	L543Z	L564Z	L574Z	
Physical	Specific Gravity		ISO 1183	23°C	1.22	1.32	1.43	1.43	1.42
	Moisture Absorption	%	ISO 62	Immersion for 24 hours	0.06	0.06	0.06	0.06	0.06
Thermal	Flammability		UL 94	1.6mm	V-1	V-1	V-1	V-0	V-1
	Temperature of Deflection Under Load(DTUL)	°C	ISO 75-1	1.80MPa	118	118	118	118	133
			ASTM D 648	1.82MPa	120	120	120	120	130
	Coefficient of Linear Thermal Expansion	mm/mm/°C	ISO 11359	-30°C~65°C	5.0×10 ⁻⁵	4.0×10 ⁻⁵	3.0×10 ⁻⁵	3.0×10 ⁻⁵	3.0×10 ⁻⁵
	Moulding Shrinkage	%	ASAHIKASEI	150×150×2mm	0.25-0.50	0.20-0.45	0.10-0.40	0.10-0.40	0.15-0.35
120×80×3mm									
Electrical	Dielectric Constant		IEC 60250	100Hz	3.2	3.3	3.4	3.4	
				1MHz	3.1	3.2	3.3	3.3	
	Dissipation Factor		IEC 60250	100Hz	0.0040	0.0060	0.0070	0.0070	
				1MHz	0.0060	0.0080	0.0090	0.0090	
	Volume Resistivity	Ohm-cm	IEC 60093	23°C 50% RH	10 ¹⁶	10 ¹⁶	10 ¹⁶	10 ¹⁶	10 ¹⁶
	Surface Resistivity	Ohm	IEC 60093	23°C 50% RH	10 ¹⁶	10 ¹⁶	10 ¹⁶	10 ¹⁶	10 ¹⁶
Dielectric Strength	kV/mm	IEC 60243	Short time. 2mm						
Mechanical	Tensile Strength	MPa	ISO 527	23°C 50% RH	76	80	62	100	105
	(Nominal) Tensile Strain	%	ISO 527	23°C 50% RH	2	2	2	2	2
	Flexural Strength	MPa	ISO 178	23°C 50% RH	130	138	111	130	150
	Flexural Modulus	MPa	ISO 178	23°C 50% RH	5410	7060	8410	8040	9180
	Charpy Impact Strength	KJ/m ²	ISO 179	4mm 23°C(Notched)	5	5	3	3	6
Molding Conditions	Resin Temperature	°C			250-300	250-300	250-300	250-300	270-310
	Mold Temperature	°C			70-90	70-90	70-90	70-90	60-120
	Pre-Drying Temperature	°C			90-100	90-100	90-100	90-100	100-110
	Pre-Drying Time	Hr			2-4	2-4	2-4	2-4	2-4
Remark					Filler 20%	Filler 30%	Filler 40%	Filler 40%	Filler 40%

Data shown are typical values obtained by proper testing methods and should not be used for specification purpose.
 Please use these data for selecting the most appropriate grade suitable for specific usage.
 These data may be changed because of improvement in properties.

Do not use XYRON™ in any of the following orally- or medically-related applications.
 - Orally-related applications : any part, device or component which may come into direct oral contact or into direct contact with drinking foods or beverages. For drinking water application, please consult Asahi Kasei Chemicals Corporation.
 - Medically-related applications : any part, or component which may be used intracorporeally or which may in dialysis or other processes come into direct or indirect contact with body tissue, body fluids, or transfusion fluids.

					High-Stiffness, Low-Warp Chassis				
Property		Units	Test Method	Test Condition	X444H	X331V		X332V	X531V
							X1561		X531Z
Physical	Specific Gravity		ISO 1183	23°C	1.43	1.15	1.15	1.22	1.15
	Moisture Absorption	%	ISO 62	Immersion for 24 hours	0.06	0.06	0.06	0.06	0.06
Thermal	Flammability		UL 94	1.6mm	HB	V-1		V-1	V-1
	Temperature of Deflection Under Load(DTUL)	°C	ISO 75-1	1.80MPa	108	97	97	97	118
			ASTM D 648	1.82MPa	110	100	100	100	120
	Coefficient of Linear Thermal Expansion	mm/mm/°C	ISO 11359	-30°C~65°C	3.0×10 ⁻⁵	6.0×10 ⁻⁵	6.0×10 ⁻⁵	5.0×10 ⁻⁵	6.0×10 ⁻⁵
Moulding Shrinkage	%	ASAHIKASEI	150×150×2mm	0.10-0.40	0.30-0.50	0.30-0.50	0.25-0.50	0.30-0.55	
			120×80×3mm						
Electrical	Dielectric Constant		IEC 60250	100Hz	3.4	3.1	3.1	3.2	3.1
				1MHz	3.3	3.0	3.0	3.1	3.0
	Dissipation Factor		IEC 60250	100Hz	0.0070	0.0030	0.0030	0.0040	0.0030
				1MHz	0.0090	0.0060	0.0050	0.0060	0.0050
	Volume Resistivity	Ohm-cm	IEC 60093	23°C 50% RH	10 ¹⁶	10 ¹⁶	10 ¹⁶	10 ¹⁶	10 ¹⁶
Surface Resistivity	Ohm	IEC 60093	23°C 50% RH	10 ¹⁶	10 ¹⁶	10 ¹⁶	10 ¹⁶	10 ¹⁶	
Dielectric Strength	kV/mm	IEC 60243	Short time. 2mm						
Mechanical	Tensile Strength	MPa	ISO 527	23°C 50% RH	72	60	73	62	71
	(Nominal) Tensile Strain	%	ISO 527	23°C 50% RH	2	2	2	2	2
	Flexural Strength	MPa	ISO 178	23°C 50% RH	134	97	105	112	119
	Flexural Modulus	MPa	ISO 178	23°C 50% RH	8200	3510	3900	5130	3600
	Charpy Impact Strength	KJ/m ²	ISO 179	4mm 23°C(Notched)	6	6	4	6	5
Molding Conditions	Resin Temperature	°C			250-300	240-300	240-280	240-300	250-300
	Mold Temperature	°C			60-90	50-80	60-90	50-80	70-90
	Pre-Drying Temperature	°C			90-100	90-100	90-100	90-100	90-100
	Pre-Drying Time	Hr			2-4	2-4	2-4	2-4	2-4
Remark					Filler 40%	Filler 10%	Filler 10% * 5VA/2.5mm	Filler 20%	Filler 10% * 5VA/2.5mm

Data shown are typical values obtained by proper testing methods and should not be used for specification purpose.
Please use these data for selecting the most appropriate grade suitable for specific usage.
These data may be changed because of improvement in properties.

Do not use XYRON™ in any of the following orally- or medically-related applications.
 - Orally-related applications : any part, device or component which may come into direct oral contact or into direct contact with drinking foods or beverages. For drinking water application, please consult Asahi Kasei Chemicals Corporation.
 - Medically-related applications : any part, or component which may be used intracorporeally or which may in dialysis or other processes come into direct or indirect contact with body tissue, body fluids, or transfusion fluids.

				High-Stiffness, Ultra Low-Warp Chassis					
Property		Units	Test Method	Test Condition	X304H	X404H	X1509	X1508	X1712
Physical	Specific Gravity		ISO 1183	23°C	1.40	1.43	1.15	1.22	1.43
	Moisture Absorption	%	ISO 62	Immersion for 24 hours	0.06	0.06	0.06	0.06	0.06
Thermal	Flammability		UL 94	1.6mm	HB	HB	V-1	V-1	V-0
	Temperature of Deflection Under Load(DTUL)	°C	ISO 75-1	1.80MPa	108	108	97	97	108
			ASTM D 648	1.82MPa	110	110	100	100	110
	Coefficient of Linear Thermal Expansion	mm/mm/°C	ISO 11359	-30°C~65°C	3.0×10 ⁻⁵	3.0×10 ⁻⁵	6.0×10 ⁻⁵	5.0×10 ⁻⁵	3.0×10 ⁻⁵
Moulding Shrinkage	%	ASAHIKASEI	150×150×2mm	0.15-0.30	0.15-0.30	0.35-0.50	0.30-0.45	0.15-0.30	
			120×80×3mm						
Electrical	Dielectric Constant		IEC 60250	100Hz	3.4	3.4	3.1	3.2	3.4
				1MHz	3.3	3.3	3.0	3.1	3.3
	Dissipation Factor		IEC 60250	100Hz	0.0070	0.0070	0.0020	0.0030	0.0060
				1MHz	0.0090	0.0090	0.0030	0.0050	0.0090
	Volume Resistivity	Ohm-cm	IEC 60093	23°C 50% RH	10 ¹⁶				
Surface Resistivity	Ohm	IEC 60093	23°C 50% RH	10 ¹⁶	10 ¹⁶	10 ¹⁶	10 ¹⁶	10 ¹⁶	
Dielectric Strength	kV/mm	IEC 60243	Short time. 2mm						
Mechanical	Tensile Strength	MPa	ISO 527	23°C 50% RH	61	62	54	55	78
	(Nominal) Tensile Strain	%	ISO 527	23°C 50% RH	2	2	5	4	2
	Flexural Strength	MPa	ISO 178	23°C 50% RH	111	111	95	99	138
	Flexural Modulus	MPa	ISO 178	23°C 50% RH	7850	8270	3600	4174	7840
	Charpy Impact Strength	KJ/m ²	ISO 179	4mm 23°C(Notched)	3	3	5	5	3
Molding Conditions	Resin Temperature	°C			250-300	250-300	240-300	240-300	250-300
	Mold Temperature	°C			60-90	60-90	50-80	50-80	60-90
	Pre-Drying Temperature	°C			90-100	90-100	90-100	90-100	90-100
	Pre-Drying Time	Hr			2-4	2-4	2-4	2-4	2-4
Remark					Filler 40%	Filler 45%	Filler 10%	Filler 20%	Filler 40%

Data shown are typical values obtained by proper testing methods and should not be used for specification purpose.
 Please use these data for selecting the most appropriate grade suitable for specific usage.
 These data may be changed because of improvement in properties.

Do not use XYRON™ in any of the following orally- or medically-related applications.
 - Orally-related applications : any part, device or component which may come into direct oral contact or into direct contact with drinking foods or beverages. For drinking water application, please consult Asahi Kasei Chemicals Corporation.
 - Medically-related applications : any part, or component which may be used intracorporeally or which may in dialysis or other processes come into direct or indirect contact with body tissue, body fluids, or transfusion fluids.

				High-Stiffness, Ultra Low-Warp Chassis			
Property		Units	Test Method	Test Condition	X604H	L524V	X603V
Physical	Specific Gravity		ISO 1183	23°C	1.40	1.43	1.32
	Moisture Absorption	%	ISO 62	Immersion for 24 hours	0.06	0.06	0.06
Thermal	Flammability		UL 94	1.6mm	HB	V-1	V-1
	Temperature of Deflection Under Load(DTUL)	°C	ISO 75-1	1.80MPa	128	118	128
			ASTM D 648	1.82MPa	130	120	130
	Coefficient of Linear Thermal Expansion	mm/mm/°C	ISO 11359	-30°C~65°C	3.0×10 ⁻⁵	3.0×10 ⁻⁵	4.0×10 ⁻⁵
Moulding Shrinkage	%	ASAHIKASEI	150×150×2mm	0.15-0.30	0.15-0.30	0.25-0.45	
			120×80×3mm				
Electrical	Dielectric Constant		IEC 60250	100Hz	3.4	3.4	3.3
				1MHz	3.3	3.3	3.2
	Dissipation Factor		IEC 60250	100Hz	0.0070	0.0060	0.0050
				1MHz	0.0090	0.0090	0.0080
	Volume Resistivity	Ohm-cm	IEC 60093	23°C 50% RH	10 ¹⁶	10 ¹⁶	10 ¹⁶
Surface Resistivity	Ohm	IEC 60093	23°C 50% RH	10 ¹⁶	10 ¹⁶	10 ¹⁶	
Dielectric Strength	kV/mm	IEC 60243	Short time. 2mm				
Mechanical	Tensile Strength	MPa	ISO 527	23°C 50% RH	63	70	68
	(Nominal) Tensile Strain	%	ISO 527	23°C 50% RH	2	2	2
	Flexural Strength	MPa	ISO 178	23°C 50% RH	109	128	125
	Flexural Modulus	MPa	ISO 178	23°C 50% RH	7140	8440	6100
	Charpy Impact Strength	KJ/m ²	ISO 179	4mm 23°C(Notched)	3	3	4
Molding Conditions	Resin Temperature	°C			260-300	250-300	270-310
	Mold Temperature	°C			60-100	60-90	70-100
	Pre-Drying Temperature	°C			90-100	90-100	90-100
	Pre-Drying Time	Hr			2-4	2-4	2-4
Remark					Filler 40%	Filler 40%	Filler 30%

Data shown are typical values obtained by proper testing methods and should not be used for specification purpose.
 Please use these data for selecting the most appropriate grade suitable for specific usage.
 These data may be changed because of improvement in properties.

Do not use XYRON™ in any of the following orally- or medically-related applications.
 - Orally-related applications : any part, device or component which may come into direct oral contact or into direct contact with drinking foods or beverages. For drinking water application, please consult Asahi Kasei Chemicals Corporation.
 - Medically-related applications : any part, or component which may be used intracorporeally or which may in dialysis or other processes come into direct or indirect contact with body tissue, body fluids, or transfusion fluids.

				Good Appearance, Low-Warp						
Property		Units	Test Method	Test Condition	X352H	X552H	X351V	X352V	X551V	X552V
Physical	Specific Gravity		ISO 1183	23°C	1.19	1.19	1.15	1.19	1.15	1.19
	Moisture Absorption	%	ISO 62	Immersion for 24 hours	0.06	0.06	0.06	0.06	0.06	0.06
Thermal	Flammability		UL 94	1.6mm	HB	HB	V-1	V-1	V-1	V-1*
	Temperature of Deflection Under Load(DTUL)	°C	ISO 75-1	1.80MPa	97	118	97	97	118	118
			ASTM D 648	1.82MPa	100	120	100	100	120	120
	Coefficient of Linear Thermal Expansion	mm/mm/°C	ISO 11359	-30°C~65°C	5.0×10 ⁻⁵	5.0×10 ⁻⁵	6.0×10 ⁻⁵	5.0×10 ⁻⁵	6.0×10 ⁻⁵	5.0×10 ⁻⁵
Moulding Shrinkage	%	ASAHIKASEI	150×150×2mm	0.35-0.55	0.30-0.45	0.35-0.55	0.25-0.40	0.40-0.55	0.30-0.45	
			120×80×3mm							
Electrical	Dielectric Constant		IEC 60250	100Hz		3.2	3.1	3.2	3.1	3.2
				1MHz		3.1	3.0	3.1	3.0	3.1
	Dissipation Factor		IEC 60250	100Hz		0.0030	0.0030	0.0030	0.0030	0.0030
				1MHz		0.0050	0.0050	0.0050	0.0050	0.0050
	Volume Resistivity	Ohm-cm	IEC 60093	23°C 50% RH	10 ¹⁶					
	Surface Resistivity	Ohm	IEC 60093	23°C 50% RH	10 ¹⁶					
Dielectric Strength	kV/mm	IEC 60243	Short time. 2mm							
Mechanical	Tensile Strength	MPa	ISO 527	23°C 50% RH	50	55	47	50	54	61
	(Nominal) Tensile Strain	%	ISO 527	23°C 50% RH	10	4	9	5	5	4
	Flexural Strength	MPa	ISO 178	23°C 50% RH	99	103	97	100	110	117
	Flexural Modulus	MPa	ISO 178	23°C 50% RH	4700	4680	3850	4420	3900	4600
	Charpy Impact Strength	KJ/m ²	ISO 179	4mm 23°C(Notched)	4	4	5	4	4	4
Molding Conditions	Resin Temperature	°C			240-300	250-300	240-300	240-300	250-300	250-300
	Mold Temperature	°C			50-80	70-90	50-80	50-80	70-90	70-90
	Pre-Drying Temperature	°C			100-110	100-110	100-110	100-110	100-110	100-110
	Pre-Drying Time	Hr			3-4	3-4	3-4	3-4	3-4	3-4
Remark					Filler 20%	Filler 20%	Filler 10%	Filler 20%	Filler 10%	Filler 20% * 5VA/2.5mm

Data shown are typical values obtained by proper testing methods and should not be used for specification purpose.
Please use these data for selecting the most appropriate grade suitable for specific usage.
These data may be changed because of improvement in properties.

Do not use XYRON™ in any of the following orally- or medically-related applications.
- Orally-related applications : any part, device or component which may come into direct oral contact or into direct contact with drinking foods or beverages. For drinking water application, please consult Asahi Kasei Chemicals Corporation.
- Medically-related applications : any part, or component which may be used intracorporeally or which may in dialysis or other processes come into direct or indirect contact with body tissue, body fluids, or transfusion fluids.

					Electroconductive High-Stiffness Carbon Fiber	
Property		Units	Test Method	Test Condition	X8610	X8401
Physical	Specific Gravity		ISO 1183	23°C	1.12	1.30
	Moisture Absorption	%	ISO 62	Immersion for 24 hours	0.06	0.06
Thermal	Flammability		UL 94	1.6mm	V-1	V-0
	Temperature of Deflection Under Load(DTUL)	°C	ISO 75-1	1.80MPa	120	118
			ASTM D 648	1.82MPa		
	Coefficient of Linear Thermal Expansion	mm/mm/°C	ISO 11359	-30°C~65°C	4.0×10 ⁻⁵	3.0×10 ⁻⁵
Moulding Shrinkage	%	ASAHIKASEI	150×150×2mm	0.20-0.40	0.15-0.35	
			120×80×3mm			
Electrical	Dielectric Constant		IEC 60250	100Hz		
				1MHz		
	Dissipation Factor		IEC 60250	100Hz		
				1MHz		
	Volume Resistivity	Ohm-cm	IEC 60093	23°C 50% RH	10 ²⁻³	10 ²⁻³
Surface Resistivity	Ohm	IEC 60093	23°C 50% RH	10 ²⁻³	10 ²⁻³	
Dielectric Strength	kV/mm	IEC 60243	Short time. 2mm			
Mechanical	Tensile Strength	MPa	ISO 527	23°C 50% RH	96	83
	(Nominal) Tensile Strain	%	ISO 527	23°C 50% RH	2	2
	Flexural Strength	MPa	ISO 178	23°C 50% RH	140	127
	Flexural Modulus	MPa	ISO 178	23°C 50% RH	8500	11000
	Charpy Impact Strength	KJ/m ²	ISO 179	4mm 23°C(Notched)	5	5
Molding Conditions	Resin Temperature	°C			250-300	250-300
	Mold Temperature	°C			60-90	60-90
	Pre-Drying Temperature	°C			90-100	90-100
	Pre-Drying Time	Hr			2-4	2-4
Remark					Filler 10%	Filler 30%

Data shown are typical values obtained by proper testing methods and should not be used for specification purpose.
 Please use these data for selecting the most appropriate grade suitable for specific usage.
 These data may be changed because of improvement in properties.

Do not use XYRON™ in any of the following orally- or medically-related applications.
 - Orally-related applications : any part, device or component which may come into direct oral contact or into direct contact with drinking foods or beverages. For drinking water application, please consult Asahi Kasei Chemicals Corporation.
 - Medically-related applications : any part, or component which may be used intracorporeally or which may in dialysis or other processes come into direct or indirect contact with body tissue, body fluids, or transfusion fluids.

					Acoustic Damping		
Property		Units	Test Method	Test Condition	VN30V	VT31V	VT31Z
Physical	Specific Gravity		ISO 1183	23°C	1.07	1.14	1.16
	Moisture Absorption	%	ISO 62	Immersion for 24 hours	0.06	0.06	0.06
Thermal	Flammability		UL 94	1.6mm	V-1	V-1	V-0
	Temperature of Deflection Under Load(DTUL)	°C	ISO 75-1	1.80MPa	96	96	96
			ASTM D 648	1.82MPa	100	100	100
	Coefficient of Linear Thermal Expansion	mm/mm/°C	ISO 11359	-30°C~65°C	7.5×10 ⁻⁵	6.0×10 ⁻⁵	6.0×10 ⁻⁵
Moulding Shrinkage	%	ASAHIKASEI	150×150×2mm	0.50-0.70	0.40-0.60	0.40-0.60	
			120×80×3mm				
Electrical	Dielectric Constant		IEC 60250	100Hz			
				1MHz			
	Dissipation Factor		IEC 60250	100Hz			
				1MHz			
	Volume Resistivity	Ohm-cm	IEC 60093	23°C 50% RH	10 ¹⁶	10 ¹⁶	10 ¹⁶
Surface Resistivity	Ohm	IEC 60093	23°C 50% RH	10 ¹⁶	10 ¹⁶	10 ¹⁶	
Dielectric Strength	kV/mm	IEC 60243	Short time. 2mm				
Mechanical	Tensile Strength	MPa	ISO 527	23°C 50% RH	46	46	50
	(Nominal) Tensile Strain	%	ISO 527	23°C 50% RH	(30)	(30)	(30)
	Flexural Strength	MPa	ISO 178	23°C 50% RH	78	79	88
	Flexural Modulus	MPa	ISO 178	23°C 50% RH	2000	2410	2470
	Charpy Impact Strength	KJ/m ²	ISO 179	4mm 23°C(Notched)	6	7	7
Molding Conditions	Resin Temperature	°C			250-290	250-290	250-290
	Mold Temperature	°C			50-80	50-80	50-80
	Pre-Drying Temperature	°C			90-100	100-110	100-110
	Pre-Drying Time	Hr			2-4	3-4	3-4
Remark						Filler 10%	Filler 10%

Data shown are typical values obtained by proper testing methods and should not be used for specification purpose.
 Please use these data for selecting the most appropriate grade suitable for specific usage.
 These data may be changed because of improvement in properties.

Do not use XYRON™ in any of the following orally- or medically-related applications.
 - Orally-related applications : any part, device or component which may come into direct oral contact or into direct contact with drinking foods or beverages. For drinking water application, please consult Asahi Kasei Chemicals Corporation.
 - Medically-related applications : any part, or component which may be used intracorporeally or which may in dialysis or other processes come into direct or indirect contact with body tissue, body fluids, or transfusion fluids.

					PA/PPE		
Property		Units	Test Method	Test Condition	A0210	AT600	AT610
Physical	Specific Gravity		ISO 1183	23°C	1.09	1.10	1.09
	Moisture Absorption	%	ISO 62	Immersion for 24 hours			
Thermal	Flammability		UL 94	1.6mm			
	Temperature of Deflection Under Load(DTUL)	°C	ISO 75-1	1.80MPa			
			ASTM D 648	1.82MPa	80	143	113
	Coefficient of Linear Thermal Expansion	mm/mm/°C	ISO 11359	-30°C~65°C	9.0×10 ⁻⁵	9.0×10 ⁻⁵	9.0×10 ⁻⁵
Moulding Shrinkage	%	ASAHIKASEI	150×150×2mm				
			120×80×3mm	1.40-2.00	1.40-2.00	1.40-2.00	
Electrical	Dielectric Constant		IEC 60250	100Hz	3.2	3.1	
				1MHz	3.0	2.9	
	Dissipation Factor		IEC 60250	100Hz	0.007	0.005	
				1MHz	0.012	0.011	
	Volume Resistivity	Ohm-cm	IEC 60093	23°C 50% RH	2.1×10 ¹⁵	4.1×10 ¹⁵	
Surface Resistivity	Ohm	IEC 60093	23°C 50% RH				
Dielectric Strength	kV/mm	IEC 60243	Short time. 2mm	25	24		
Mechanical	Tensile Strength	MPa	ISO 527	23°C 50% RH	65	61	66
	(Nominal) Tensile Strain	%	ISO 527	23°C 50% RH	30	40	35
	Flexural Strength	MPa	ISO 178	23°C 50% RH	95	95	99
	Flexural Modulus	MPa	ISO 178	23°C 50% RH	2400	2310	2300
	Charpy Impact Strength	KJ/m ²	ISO 179	4mm 23°C(Notched)	20	26	20
Molding Conditions	Resin Temperature	°C			280-300	280-300	280-300
	Mold Temperature	°C			60-120	60-120	60-120
	Pre-Drying Temperature	°C			110-130	110-130	110-130
	Pre-Drying Time	Hr			2-3	2-4	2-4
Remark							

Data shown are typical values obtained by proper testing methods and should not be used for specification purpose.
 Please use these data for selecting the most appropriate grade suitable for specific usage.
 These data may be changed because of improvement in properties.

Do not use XYRON™ in any of the following orally- or medically-related applications.
 - Orally-related applications : any part, device or component which may come into direct oral contact or into direct contact with drinking foods or beverages. For drinking water application, please consult Asahi Kasei Chemicals Corporation.
 - Medically-related applications : any part, or component which may be used intracorporeally or which may in dialysis or other processes come into direct or indirect contact with body tissue, body fluids, or transfusion fluids.

				PA/PPE					
Property		Units	Test Method	Test Condition	AT602	AG511	AG512	AG211	AG213
Physical	Specific Gravity		ISO 1183	23°C	1.25	1.15	1.23	1.16	1.32
	Moisture Absorption	%	ISO 62	Immersion for 24 hours					
Thermal	Flammability		UL 94	1.6mm					
	Temperature of Deflection Under Load(DTUL)	°C	ISO 75-1	1.80MPa					
			ASTM D 648	1.82MPa	138	150	180	199	226
	Coefficient of Linear Thermal Expansion	mm/mm/°C	ISO 11359	-30°C~65°C	5.0×10 ⁻⁵	5.0×10 ⁻⁵	4.0×10 ⁻⁵	5.0×10 ⁻⁵	3.0×10 ⁻⁵
Moulding Shrinkage	%	ASAHIKASEI	150×150×2mm						
			120×80×3mm	1.00-1.30	0.50-0.70	0.30-0.70	0.50-0.70	0.30-0.60	
Electrical	Dielectric Constant		IEC 60250	100Hz	3.3	3.3	3.5		
				1MHz	3.1	3.1	3.3		
	Dissipation Factor		IEC 60250	100Hz	0.007	0.006	0.008		
				1MHz	0.011	0.011	0.012		
	Volume Resistivity	Ohm-cm	IEC 60093	23°C 50% RH	4.5×10 ¹⁵	1.3×10 ¹⁶	7.1×10 ¹⁵		
Surface Resistivity	Ohm	IEC 60093	23°C 50% RH						
Dielectric Strength	kV/mm	IEC 60243	Short time. 2mm	27	24	38			
Mechanical	Tensile Strength	MPa	ISO 527	23°C 50% RH	55	90	140	94	150
	(Nominal) Tensile Strain	%	ISO 527	23°C 50% RH	7	4	4	5	3
	Flexural Strength	MPa	ISO 178	23°C 50% RH	95	140	150	148	230
	Flexural Modulus	MPa	ISO 178	23°C 50% RH	3900	3850	5600	3700	7900
	Charpy Impact Strength	KJ/m ²	ISO 179	4mm 23°C(Notched)	4	11	12	11	13
Molding Conditions	Resin Temperature	°C			280-300	260-300	260-300	280-300	280-300
	Mold Temperature	°C			60-120	60-120	60-120	60-120	60-120
	Pre-Drying Temperature	°C			110-130	100-130	100-130	110-130	110-130
	Pre-Drying Time	Hr			2-4	3-4	3-4	2-4	2-4
Remark					Filler 20%	GF 10%	GF 20%	GF 10%	GF 30%

Data shown are typical values obtained by proper testing methods and should not be used for specification purpose.
 Please use these data for selecting the most appropriate grade suitable for specific usage.
 These data may be changed because of improvement in properties.

Do not use XYRON™ in any of the following orally- or medically-related applications.
 - Orally-related applications : any part, device or component which may come into direct oral contact or into direct contact with drinking foods or beverages. For drinking water application, please consult Asahi Kasei Chemicals Corporation.
 - Medically-related applications : any part, or component which may be used intracorporeally or which may in dialysis or other processes come into direct or indirect contact with body tissue, body fluids, or transfusion fluids.

					PP/PPE		
Property		Units	Test Method	Test Condition	EV103	T0702	TT520
Physical	Specific Gravity		ISO 1183	23°C	0.93	1.01	1.13
	Moisture Absorption	%	ISO 62	Immersion for 24 hours		0.04	0.04
Thermal	Flammability		UL 94	1.6mm		HB	HB
	Temperature of Deflection Under Load(DTUL)	°C	ISO 75-1	1.80MPa		120	100
			ASTM D 648	1.82MPa	97	135	120
	Coefficient of Linear Thermal Expansion	mm/mm/°C	ISO 11359	-30°C~65°C	9.0×10 ⁻⁵	7.0×10 ⁻⁵	6.0×10 ⁻⁵
Moulding Shrinkage	%	ASAHIKASEI	150×150×2mm			0.90-1.20	0.70-0.90
			120×80×3mm	2.00-2.50			
Electrical	Dielectric Constant		IEC 60250	100Hz	2.3	2.5	2.5
				1MHz	2.3	2.5	2.5
	Dissipation Factor		IEC 60250	100Hz	0.0002	0.0002	0.0002
				1MHz	0.0005	0.0007	0.0007
	Volume Resistivity	Ohm-cm	IEC 60093	23°C 50% RH	8.4×10 ¹⁶	3.3×10 ¹⁷	5.5×10 ¹⁶
Surface Resistivity	Ohm	IEC 60093	23°C 50% RH				
Dielectric Strength	kV/mm	IEC 60243	Short time. 2mm	30	41	41	
Mechanical	Tensile Strength	MPa	ISO 527	23°C 50% RH	37	43	40
	(Nominal) Tensile Strain	%	ISO 527	23°C 50% RH	51	(20)	(20)
	Flexural Strength	MPa	ISO 178	23°C 50% RH	57	62	64
	Flexural Modulus	MPa	ISO 178	23°C 50% RH	2050	1880	3200
	Charpy Impact Strength	KJ/m ²	ISO 179	4mm 23°C(Notched)	19	30	6
Molding Conditions	Resin Temperature	°C			230-260	250-290	250-280
	Mold Temperature	°C			50-70	50-90	50-90
	Pre-Drying Temperature	°C			80-90	90-100	100-110
	Pre-Drying Time	Hr			1-2	2-4	3-4
Remark							Filler 20%

Data shown are typical values obtained by proper testing methods and should not be used for specification purpose.
 Please use these data for selecting the most appropriate grade suitable for specific usage.
 These data may be changed because of improvement in properties.

Do not use XYRON™ in any of the following orally- or medically-related applications.
 - Orally-related applications : any part, device or component which may come into direct oral contact or into direct contact with drinking foods or beverages. For drinking water application, please consult Asahi Kasei Chemicals Corporation.
 - Medically-related applications : any part, or component which may be used intracorporeally or which may in dialysis or other processes come into direct or indirect contact with body tissue, body fluids, or transfusion fluids.

				PPS/PPE				
Property		Units	Test Method	Test Condition	DG235	DG141	DG043	DV166
Physical	Specific Gravity		ISO 1183	23°C	1.44	1.53	1.52	1.83
	Moisture Absorption	%	ISO 62	Immersion for 24 hours				
Thermal	Flammability		UL 94	1.6mm	V-1	V-0/2.0mm	V-0	V-1/2.5mm
	Temperature of Deflection Under Load(DTUL)	°C	ISO 75-1	1.80MPa	240	241	185	262
			ASTM D 648	1.82MPa				
	Coefficient of Linear Thermal Expansion	mm/mm/°C	ISO 11359	-30°C~65°C	3.5×10 ⁻⁵	3.0×10 ⁻⁵	3.0×10 ⁻⁵	3.0×10 ⁻⁵
Moulding Shrinkage	%	ASAHIKASEI	150×150×2mm	0.20-0.50	0.10-0.40	0.15-0.30	0.05-0.20	
			120×80×3mm					
Electrical	Dielectric Constant		IEC 60250	100Hz	4.0	4.1	4.0	4.8
				1MHz	4.0	4.1	4.0	4.2
	Dissipation Factor		IEC 60250	100Hz	0.0010	0.0010	0.0010	0.0210
				1MHz	0.0020	0.0020	0.0020	0.0130
	Volume Resistivity	Ohm-cm	IEC 60093	23°C 50% RH	10 ¹⁶	10 ¹⁶	10 ¹⁶	10 ¹⁶
Surface Resistivity	Ohm	IEC 60093	23°C 50% RH	10 ¹⁶	10 ¹⁶	10 ¹⁶	10 ¹⁶	
Dielectric Strength	kV/mm	IEC 60243	Short time. 2mm		27	29	40	
Mechanical	Tensile Strength	MPa	ISO 527	23°C 50% RH	125	89	79	88
	(Nominal) Tensile Strain	%	ISO 527	23°C 50% RH	2	2	2	2
	Flexural Strength	MPa	ISO 178	23°C 50% RH	192	147	132	154
	Flexural Modulus	MPa	ISO 178	23°C 50% RH	9750	11800	9770	16400
	Charpy Impact Strength	KJ/m ²	ISO 179	4mm 23°C(Notched)	7	4	2	5
Molding Conditions	Resin Temperature	°C			300-330	300-330	300-330	300-330
	Mold Temperature	°C			90-130	90-130	90-130	90-130
	Pre-Drying Temperature	°C			120	120	120	120
	Pre-Drying Time	Hr			3-4	3-4	3-4	3-4
Remark					GF 30%	Filler 40% * 5VB/2.0mm * (f1)BK	Filler 40%	Filler 60%

Data shown are typical values obtained by proper testing methods and should not be used for specification purpose.
Please use these data for selecting the most appropriate grade suitable for specific usage.
These data may be changed because of improvement in properties.

Do not use XYRON™ in any of the following orally- or medically-related applications.
- Orally-related applications : any part, device or component which may come into direct oral contact or into direct contact with drinking foods or beverages. For drinking water application, please consult Asahi Kasei Chemicals Corporation.
- Medically-related applications : any part, or component which may be used intracorporeally or which may in dialysis or other processes come into direct or indirect contact with body tissue, body fluids, or transfusion fluids.