

Property					Standard, Glass Fiber			Flame Retardant, Glass Fiber			High-Flow Chassis		
					Units	Test method	Test Condition	Grade	G701H	G702H	G703H	G701V	G702V
Physical	Specific gravity		ISO 1183	23°C	1.13	1.20	1.30	1.15	1.22	1.30	1.16	1.22	
	Moisture Absorption	%	ISO 62	Immersion 24 hours	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	
Thermal	Temperature of Deflection Under Load(TDUL)	°C	ISO 75-1	1.80MPa	128	139	139	128	139	139	97	118	
			ASTM D 648	1.82MPa	130	140	140	130	140	140	100	120	
	Coefficient Linear Thermal Expansion	mm/mm/°C	ISO 11359	-30°C ~65°C	5.0×10 ⁻⁵	3.5×10 ⁻⁵	3.0×10 ⁻⁵	5.0×10 ⁻⁵	3.5×10 ⁻⁵	3.0×10 ⁻⁵	5.5×10 ⁻⁵	5.0×10 ⁻⁵	
	Moulding shrinkage	%	ISO 294-4										
			ASTM D 955		0.3~0.5	0.2~0.4	0.2~0.3	0.3~0.5	0.2~0.4	0.1~0.3	0.3~0.5	0.25~0.50	
Flammability		UL 94	1.6mm	HB	HB	HB	V-1	V-1	V-1	V-0	V-0		
			3.2mm	HB	HB	HB	V-1 *	V-1	V-1	V-0	V-0		
Electrical	Dielectric Constant		IEC 60250	100 Hz	2.9	3.1	3.3	3.0	3.2	3.4	3.1	3.2	
				1 MHz	2.9	3.1	3.3	3.0	3.2	3.4	3.0	3.1	
	Dissipation Factor		IEC 60250	100 Hz	0.0004	0.0006	0.0009	0.002	0.003	0.005	0.003	0.004	
				1 MHz	0.0008	0.0011	0.0015	0.003	0.005	0.008	0.005	0.006	
	Volume Resistivity	Ω • cm	IEC 60250	23°C 50% RH	10 ¹⁶	10 ¹⁶	10 ¹⁶	10 ¹⁶	10 ¹⁶	10 ¹⁶	10 ¹⁶	10 ¹⁶	
	Surface Resistivity	Ω	IEC 60093	23°C 50% RH	10 ¹⁶	10 ¹⁶	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	-	-	
Comparative Tracking Index	V	IEC 60112	3mm	-	-	-	400	435	125	-	-		
Mechanical	Tensile Strength	MPa	ISO 527	23°C 50% RH	75	94	110	78	94	110	73	86	
	(Nominal) Tensile Strain	%	ISO 527	23°C 50% RH	3	2	2	3	2	2	2	2	
	Flexural Strength	MPa	ISO 178	23°C 50% RH	129	149	159	138	149	159	105	134	
	Flexural Modulus	MPa	ISO 178	23°C 50% RH	3590	4850	6480	3790	4850	6480	3900	5480	
	Charpy Impact Strength(notched)	kJ/m ²	ISO 179	4mm 23°C	10	8	8	10	8	8	4	4	
	Izod Impact Strength (notched)	J/m	ASTM D 256	6.4mm 23°C	98	78	78	98	78	78	39	39	
3.2mm 23°C				118	98	98	118	98	98	49	49		
Molding Conditions	Resin Temperature	°C			250~290	260~290	260~300	260~300	260~300	260~300	240~280	250~300	
	Mold Temperature	°C			80~120	80~120	80~120	80~120	80~120	80~120	60~90	70~90	
	Pre-Drying Temperature	°C			90~100	90~100	90~100	90~100	90~100	90~100	100	100	
	Drying Time	Hr			2~4	2~4	2~4	2~4	2~4	2~4	2~4	2~4	
					GF10%	GF20%	GF30%	GF10% ★2.4mm5VA	GF20%	GF30%	Filler10%	Filler20%	

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Property					High-Flow Chassis			Low-Gas, High-Flow Chassis			
					X1763	X1774	X1784	L542V	L543V	L544V	L564V
Units	Test method	Test Condition	Grade								
Physical	Specific gravity		ISO 1183	23°C	1.32	1.43	1.43	1.22	1.32	1.43	1.43
	Moisture Absorption	%	ISO 62	Immersion 24 hours	0.06	0.06	0.06	0.06	0.06	0.06	0.06
Thermal	Temperature of Deflection Under Load(TDUL)	°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 Linear Thermal Expansion	mm/mm/°C	ISO 11359	-30°C ~65°C	4.0×10 ⁻⁵	3.5×10 ⁻⁵	3.5×10 ⁻⁵	5.0×10 ⁻⁵	4.0×10 ⁻⁵	3.5×10 ⁻⁵	3.5×10 ⁻⁵
	Moulding shrinkage	%	ISO 294-4								
			ASTM D 955		0.20~0.45	0.11~0.39	0.12~0.32	0.25~0.50	0.20~0.45	0.10~0.40	0.10~0.40
Flammability		UL 94	1.6mm	V-0	V-0	V-0	V-1	V-1	V-1	V-1	
			3.2mm	V-0	–	–	(V-1)	(V-1)	(V-1)	(V-1)	
Electrical	Dielectric Constant		IEC 60250	100 Hz	3.3	3.4	3.4	3.2	3.3	3.4	3.4
				1 MHz	3.2	3.3	3.3	3.1	3.2	3.3	3.3
	Dissipation Factor		IEC 60250	100 Hz	0.006	0.0070	0.0070	0.004	0.006	0.007	0.007
				1 MHz	0.008	0.0090	0.0090	0.006	0.008	0.009	0.009
	Volume Resistivity	Ω•cm	IEC 60250	23°C 50% RH	10 ¹⁶	10 ¹⁶	10 ¹⁶	10 ¹⁶	10 ¹⁶	10 ¹⁶	10 ¹⁶
	Surface Resistivity	Ω	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	–	–	–	–	–	–	–
Comparative Tracking Index	V	IEC 60112	3mm	–	–	–	–	–	–	–	
Mechanical	Tensile Strength	MPa	ISO 527	23°C 50% RH	99	116	85	85	88	89	70
	(Nominal) Tensile Strain	%	ISO 527	23°C 50% RH	2	2	3	3	3	2	2
	Flexural Strength	MPa	ISO 178	23°C 50% RH	144	130	129	133	139	142	115
	Flexural Modulus	MPa	ISO 178	23°C 50% RH	7110	8040	8410	5410	7060	8840	8490
	Charpy Impact Strength(notched)	kJ/m ²	ISO 179	4mm 23°C	4	3	3	5	5	5	3
	Izod Impact Strength (notched)	J/m	ASTM D 256	6.4mm 23°C	39	29	29	42	42	43	29
3.2mm 23°C				49	–	–	–	–	–	–	
Molding Conditions	Resin Temperature	°C			250~300	250~310	250~310	250~300	250~300	250~300	250~300
	Mold Temperature	°C			70~90	60~100	60~100	70~90	70~90	70~90	70~90
	Pre-Drying Temperature	°C			100	100	100	100	100	100	100
	Drying Time	Hr			2~4	2~4	2~4	2~4	2~4	2~4	2~4
					Filler30%	Filler40%	Filler40%	Filler20% ()3.0mm	Filler30% ()3.0mm	Filler40% ()3.0mm	Filler40% ()3.0mm

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					Low-Wrap Chassis							
Property	Units	Test method	Test Condition	Grade	X332V	X332Z	X333V	X333Z	X532V	X532Z	X533V	
					Physical	Specific gravity		ISO 1183	23°C	1.20	1.20	1.30
Moisture Absorption	%	ISO 62	Immersion 24 hours	0.06		0.06	0.06	0.06	0.06	0.06	0.06	
Thermal	Temperature of Deflection Under Load(TDUL)	°C	ISO 75-1	1.80MPa	97	97	97	97	118	118	118	
			ASTM D 648	1.82MPa	100	100	100	100	120	120	120	
	Coefficient Linear Thermal Expansion	mm/mm/°C	ISO 11359	-30°C ~65°C	5.0×10 ⁻⁵	5.0×10 ⁻⁵	4.0×10 ⁻⁵	4.0×10 ⁻⁵	5.0×10 ⁻⁵	5.0×10 ⁻⁵	4.0×10 ⁻⁵	
	Moulding shrinkage	%	ISO 294-4									
			ASTM D 955		0.30~0.50	0.30~0.50	0.15~0.35	0.15~0.35	0.25~0.50	0.20~0.45	0.20~0.45	
Flammability		UL 94	1.6mm	V-1	V-0	V-1	V-0	V-1	V-0	V-1		
			3.2mm	V-1	V-0*	V-1	V-0*	V-1	V-0*	V-1		
Electrical	Dielectric Constant		IEC 60250	100 Hz	3.2	3.2	3.3	3.3	3.2	3.2	3.3	
				1 MHz	3.1	3.1	3.2	3.2	3.1	3.1	3.2	
	Dissipation Factor		IEC 60250	100 Hz	0.004	0.004	0.006	0.006	0.004	0.004	0.006	
				1 MHz	0.006	0.006	0.008	0.008	0.006	0.006	0.008	
	Volume Resistivity	Ω•cm	IEC 60250	23°C 50% RH	10 ¹⁶	10 ¹⁶	10 ¹⁶	10 ¹⁶	10 ¹⁶	10 ¹⁶	10 ¹⁶	
	Surface Resistivity	Ω	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	–	–	–	–	–	–	–	
Comparative Tracking Index	V	IEC 60112	3mm	–	–	–	–	–	–	–		
Mechanical	Tensile Strength	MPa	ISO 527	23°C 50% RH	74	74	83	83	85	85	102	
	(Nominal) Tensile Strain	%	ISO 527	23°C 50% RH	3	3	3	3	3	3	3	
	Flexural Strength	MPa	ISO 178	23°C 50% RH	116	146	140	140	134	134	149	
	Flexural Modulus	MPa	ISO 178	23°C 50% RH	4750	4750	7540	7540	5130	5130	7640	
	Charpy Impact Strength(notched)	kJ/m ²	ISO 179	4mm 23°C	5	5	4	4	4	4	4	
	Izod Impact Strength (notched)	J/m	ASTM D 256	6.4mm 23°C	49	49	39	39	39	39	39	
3.2mm 23°C				59	59	49	49	49	49	49		
Molding Conditions	Resin Temperature	°C			260~300	260~300	260~300	260~300	270~310	270~310	270~300	
	Mold Temperature	°C			50~80	50~80	50~80	50~80	70~100	70~100	70~100	
	Pre-Drying Temperature	°C			80~100	80~100	80~100	80~100	100	100	100	
	Drying Time	Hr			2~4	2~4	2~4	2~4	2~4	2~4	2~4	
					Filler20% *2.5mm5VA	Filler20%	Filler30%	Filler30% *2.5mm5VA	Filler20%	Filler20% *2.5mm5VA	Filler30%	

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Property					Low-Wrap Chassis			Precision Chassis				
					X533Z	X534Z	X643V	X1519	X1511	X1711	X304H	
Units	Test method	Test Condition	Grade									
Physical	Specific gravity		ISO 1183	23°C	1.30	1.42	1.30	1.30	1.42	1.42	1.38	
	Moisture Absorption	%	ISO 62	Immersion 24 hours	0.06	0.06	0.06	0.05	0.05	0.05	0.05	
Thermal	Temperature of Deflection Under Load(TDUL)	°C	ISO 75-1	1.80MPa	118	118	128	97	97	108	97	
			ASTM D 648	1.82MPa	120	120	130	100	100	110	100	
	Coefficient Linear Thermal Expansion	mm/mm/°C	ISO 11359	-30°C ~65°C	4.0×10 ⁻⁵	3.5×10 ⁻⁵	3.5×10 ⁻⁵	3.5×10 ⁻⁵	3.0×10 ⁻⁵	3.0×10 ⁻⁵	3.5×10 ⁻⁵	
	Moulding shrinkage	%	ISO 294-4									
			ASTM D 955		0.20~0.45	0.10~0.40	0.20~0.50	0.20~0.35	0.15~0.30	0.15~0.30	0.10~0.40	
Flammability		UL 94	1.6mm	V-0	V-0	V-1	V-1	V-0	V-0	HB		
			3.2mm	V-0*	V-0	V-1	V-1	V-0	V-0	HB		
Electrical	Dielectric Constant		IEC 60250	100 Hz	3.3	3.4	3.3	3.3	3.4	3.4	3.4	
				1 MHz	3.2	3.3	3.2	3.2	3.3	3.3	3.3	
	Dissipation Factor		IEC 60250	100 Hz	0.006	0.007	0.007	0.005	0.006	0.006	0.007	
				1 MHz	0.008	0.009	0.009	0.008	0.009	0.009	0.009	
	Volume Resistivity	Ω•cm	IEC 60250	23°C 50% RH	10 ¹⁶	10 ¹⁶	10 ¹⁶	10 ¹⁶	10 ¹⁶	10 ¹⁶	10 ¹⁶	
	Surface Resistivity	Ω	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	–	–	–	–	–	–	–	
Comparative Tracking Index	V	IEC 60112	3mm	–	–	–	–	–	–	–		
Mechanical	Tensile Strength	MPa	ISO 527	23°C 50% RH	102	115	84	73	78	82	65	
	(Nominal) Tensile Strain	%	ISO 527	23°C 50% RH	3	3	3	2	2	2	2	
	Flexural Strength	MPa	ISO 178	23°C 50% RH	149	163	143	121	129	129	102	
	Flexural Modulus	MPa	ISO 178	23°C 50% RH	7640	8600	7440	6290	8120	7840	7850	
	Charpy Impact Strength(notched)	kJ/m ²	ISO 179	4mm 23°C	4	4	4	3	3	3	3	
	Izod Impact Strength (notched)	J/m	ASTM D 256	6.4mm 23°C	39	39	39	29	29	29	43	
3.2mm 23°C				49	49	49	39	39	39	–		
Molding Conditions	Resin Temperature	°C			270~300	280~320	280~320	260~300	260~300	270~310	250~300	
	Mold Temperature	°C			70~100	70~100	70~100	50~80	50~80	60~90	60~90	
	Pre-Drying Temperature	°C			100	100	100	100	100	100	100	
	Drying Time	Hr			2~4	2~4	2~4	2~4	2~4	2~4	2~4	
					Filler30% *2.5mm5VA	Filler40%	Filler30%	Filler30%	Filler40%	Filler40%	Filler40%	

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					Precision Chassis	Good Appearance, low-warp						
Property	Units	Test method	Test Condition	Grade	X404H	X251V	X251Z	X351V	X351Z	X352V	X551V	
					Physical	Specific gravity		ISO 1183	23°C	1.38	1.19	1.19
Moisture Absorption	%	ISO 62	Immersion 24 hours	0.05		0.06	0.06	0.06	0.06	0.05	0.06	
Thermal	Temperature of Deflection Under Load(TDUL)	°C	ISO 75-1	1.80MPa	108	87	87	97	97	97	118	
			ASTM D 648	1.82MPa	110	90	90	100	100	100	100	
	Coefficient Linear Thermal Expansion	mm/mm/°C	ISO 11359	-30°C ~65°C	3.5×10 ⁻⁵	5.5×10 ⁻⁵	5.5×10 ⁻⁵	5.5×10 ⁻⁵	5.5×10 ⁻⁵	4.5×10 ⁻⁵	5.5×10 ⁻⁵	
	Moulding shrinkage	%	ISO 294-4									
			ASTM D 955		0.10~0.40	0.35~0.50	0.35~0.50	0.35~0.50	0.35~0.50	0.25~0.40	0.40~0.55	
Flammability		UL 94		1.6mm	HB	V-1	V-0	V-1	V-0	V-1	V-1	
				3.2mm	HB	–	–	V-1	V-0	V-1	V-1	
Electrical	Dielectric Constant		IEC 60250	100 Hz	3.4	3.1	3.1	3.1	3.1	3.1	3.1	
				1 MHz	3.3	3.0	3.0	3.0	3.0	3.0	3.0	
	Dissipation Factor		IEC 60250	100 Hz	0.007	0.003	0.003	0.003	0.003	0.003	0.003	
				1 MHz	0.009	0.006	0.006	0.005	0.005	0.005	0.005	
	Volume Resistivity	Ω•cm	IEC 60250	23°C 50% RH	10 ¹⁶	10 ¹⁶	10 ¹⁶	10 ¹⁶	10 ¹⁶	10 ¹⁶	10 ¹⁶	
	Surface Resistivity	Ω	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	–	–	–	–	–	–	–	
Comparative Tracking Index	V	IEC 60112	3mm	–	–	–	–	–	–	–		
Mechanical	Tensile Strength	MPa	ISO 527	23°C 50% RH	66	55	55	59	59	57	67	
	(Nominal) Tensile Strain	%	ISO 527	23°C 50% RH	2	10	10	7	7	5	5	
	Flexural Strength	MPa	ISO 178	23°C 50% RH	105	88	88	95	95	92	108	
	Flexural Modulus	MPa	ISO 178	23°C 50% RH	8270	3570	3570	3470	3470	4420	3450	
	Charpy Impact Strength(notched)	kJ/m ²	ISO 179	4mm 23°C	3	4	4	4	4	4	4	
	Izod Impact Strength (notched)	J/m	ASTM D 256	6.4mm 23°C	29	39	39	39	39	39	39	
3.2mm 23°C				–	49	49	49	49	49	49		
Molding Conditions	Resin Temperature	°C			250~300	240~270	240~270	240~280	240~280	240~280	250~310	
	Mold Temperature	°C			60~90	40~70	40~70	50~80	50~80	50~80	60~100	
	Pre-Drying Temperature	°C			100	60~90	60~90	90~100	90~100	90~100	100~110	
	Drying Time	Hr			2~4	2~4	2~4	2~4	2~4	2~4	2~4	
					Filler40%	Filler10%	Filler10%	Filler10%	Filler10%	Filler20%	Filler10%	

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					Good Appearance, low-warp		Electroconductive		Acoustic Damping			
Property	Units	Test method	Test Condition	Grade	X552V	X552H	X8400	X8600	VM502	VM303	VT302	
					Physical	Specific gravity		ISO 1183	23°C	1.22	1.20	1.27
Moisture Absorption	%	ISO 62	Immersion 24 hours	0.06		0.05	0.06	0.06	0.06	0.06	0.06	
Thermal	Temperature of Deflection Under Load(TDUL)	°C	ISO 75-1	1.80MPa	118	118	115	115	118	97	97	
			ASTM D 648	1.82MPa	120	120	115	115	120	100	100	
	Coefficient Linear Thermal Expansion	mm/mm/°C	ISO 11359	-30°C ~65°C	4.5x10 ⁻⁵	4.5x10 ⁻⁵	3.0x10 ⁻⁵	3.5x10 ⁻⁵	5.0x10 ⁻⁵	4.5x10 ⁻⁵	5.0x10 ⁻⁵	
	Moulding shrinkage	%	ISO 294-4									
			ASTM D 955		0.30~0.45	0.30~0.45	0.15~0.35	0.20~0.40	0.35~0.60	0.20~0.45	0.35~0.50	
Flammability		UL 94	1.6mm	V-1	HB	V-1	V-0	V-1	V-1	V-1		
			3.2mm	V-1	–	V-0*	V-0	V-1	V-1	V-1		
Electrical	Dielectric Constant		IEC 60250	100 Hz	3.2	3.3	–	–	–	–	–	
				1 MHz	3.1	3.2	–	–	–	–	–	
	Dissipation Factor		IEC 60250	100 Hz	0.003	0.0030	–	–	–	–	–	
				1 MHz	0.005	0.0050	–	–	–	–	–	
	Volume Resistivity	Ω • cm	IEC 60250	23°C 50% RH	10 ¹⁶	10 ¹⁶	10 ³	10 ¹	10 ¹⁶	10 ¹⁶	10 ¹⁶	
	Surface Resistivity	Ω	IEC 60093	23°C 50% RH	10 ¹⁶	10 ¹⁶	10 ³	10 ¹	10 ¹⁶	10 ¹⁶	10 ¹⁶	
	Dielectric Strength	kV/mm	IEC 60243	Short time, 2mm	–	–	–	–	–	–	–	
Comparative Tracking Index	V	IEC 60112	3mm	–	–	–	–	–	–	–		
Mechanical	Tensile Strength	MPa	ISO 527	23°C 50% RH	66	63	106	102	58	61	49	
	(Nominal) Tensile Strain	%	ISO 527	23°C 50% RH	5	5	–	–	3	3	10	
	Flexural Strength	MPa	ISO 178	23°C 50% RH	108	100	154	154	112	110	86	
	Flexural Modulus	MPa	ISO 178	23°C 50% RH	4600	4680	7110	7930	3950	5040	3230	
	Charpy Impact Strength(notched)	kJ/m ²	ISO 179	4mm 23°C	4	4	5	5	7	7	7	
	Izod Impact Strength (notched)	J/m	ASTM D 256	6.4mm 23°C	39	39	49	49	69	69	69	
3.2mm 23°C				49	49	59	59	69	69	69		
Molding Conditions	Resin Temperature	°C			250~300	240~300	240~300	240~300	250~300	230~280	230~280	
	Mold Temperature	°C			60~100	60~100	60~100	60~100	50~100	50~80	50~80	
	Pre-Drying Temperature	°C			100~110	110	90~100	90~100	90~100	90~100	90~100	
	Drying Time	Hr			2~4	2~4	2~4	2~4	2~4	2~4	2~4	
					Filler20%	Filler20%	*2.5mm5VA					

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- Be sure to read the relevant MSDS before handling and use, and always follow the Important Precautions.

					(PPE/PA) Automotive, Glass Fiber		(PPE/PA) Oil Resistant, Glass Fiber			
Property	Units	Test method	Test Condition	Grade	AG511	AG512	G010H	G010Z	G020H	G020Z
					Physical	Specific gravity		ISO 1183	23°C	1.16
Moisture Absorption	%	ISO 62	Immersion 24 hours	0.10		0.10	0.30	0.30	0.30	0.30
Thermal	Temperature of Deflection Under Load(TDUL)	°C	ISO 75-1	1.80MPa	204 **	208 **	–	–	–	–
			ASTM D 648	1.82MPa	205 *	210 *	180/225 *	170/225 *	220/265*	200/265*
	Coefficient Linear Thermal Expansion	mm/mm/°C	ISO 11359	-30°C ~65°C	5x10 ⁻⁵	3x10 ⁻⁵	3.0x10 ⁻⁵	3.0x10 ⁻⁵	3.0x10 ⁻⁵	3.0x10 ⁻⁵
	Moulding shrinkage	%	ISO 294-4							
			ASTM D 955		0.5~0.7	0.4~0.7	0.30~0.60	0.30~0.60	0.30~0.70	0.30~0.40
Flammability		UL 94	1.6mm	Eq. to HB	Eq. to HB	HB	V-0	HB	V-0	
			3.2mm	Eq. to HB	Eq. to HB	HB	V-0	HB	V-0	
Electrical	Dielectric Constant		IEC 60250	100 Hz	–	–	3.6	3.8	3.5	3.8
				1 MHz	–	–	3.2	3.4	3.1	3.4
	Dissipation Factor		IEC 60250	100 Hz	–	–	0.004	0.002	0.004	0.002
				1 MHz	–	–	0.010	0.007	0.010	0.007
	Volume Resistivity	Ω • cm	IEC 60250	23°C 50% RH	–	–	10 ¹⁵	10 ¹⁵	10 ¹⁵	10 ¹⁵
	Surface Resistivity	Ω	IEC 60093	23°C 50% RH	–	–	10 ¹⁵	10 ¹⁵	10 ¹⁵	10 ¹⁵
	Dielectric Strength	kV/mm	IEC 60243	Short time, 2mm	–	–	35	35	35	35
Comparative Tracking Index	V	IEC 60112	3mm	–	–	–	–	–	–	
Mechanical	Tensile Strength	MPa	ISO 527	23°C 50% RH	93	106	143	130	147	131
	(Nominal) Tensile Strain	%	ISO 527	23°C 50% RH	3.5	2	3	3	2	3
	Flexural Strength	MPa	ISO 178	23°C 50% RH	143	153	210	182	208	180
	Flexural Modulus	MPa	ISO 178	23°C 50% RH	4100	6000	7570	7100	8100	7770
	Charpy Impact Strength(notched)	kJ/m ²	ISO 179	4mm 23°C	11	5	7	8	7	8
	Izod Impact Strength (notched)	J/m	ASTM D 256	6.4mm 23°C				69	78	69
3.2mm 23°C					137	118	118	127	118	127
Molding Conditions	Resin Temperature	°C			260~290	260~290	250~290	240~280	280~300	260~300
	Mold Temperature	°C			60~120	60~120	60~100	60~100	60~100	60~100
	Pre-Drying Temperature	°C			100~110	100~110	90~100	90~100	90~100	90~100
	Drying Time	Hr			3~4	3~4	3~4	3~4	3~4	3~4
					GF10%	GF20%	GF30%	GF30%	GF30%	GF30%
					* load:0.46 MPA ** load:0.45 MPA		* load:0.46 MPA			

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 • Be sure to read the relevant MSDS before handling and use, and always follow the Important Precautions. (4)