Properties of DELPET™ Heat-resistant grades

AsahiKASEI
ASAHI KASEI CORPORATION

Property	Method	Units	980N	981J	982J	PM120N	PM130N
1. Rheological Properties							
Melt mass-flow rate (230℃、3.8kg)	1133 cond 13	g/10min	1.6	1.8	2.0	1.2	1.8
Spiral flow length Thickness:2mm Cylinder Temp:250℃ Mold Temp:60℃ Pressure:75MPa	ASAHIKASEI method	cm	30	28	28	28	27
2. Mechanical Properties							
Tensile modulus	527-2/1A/1	MPa	3600	3400	3300	3500	3300
Tensile strength at break	527-2/1A/5	MPa	77	77	77	77	77
Tensile strain at break	527-2/1A/5	%	4	5	5	5	5
Charpy impact strength (Unnotched)	179/1eU	KJ/m^2	17	17	20	16	16
Charpy impact strength (Notched)	179/1eA	KJ/m^2	1.2	1.2	1.3	1.2	1.2
3. Thermal properties							
Temperature of deflection under load	75-1 75-2	℃	118	110	103	118	110
VICAT softening temperature	306 B 50	℃	123	116	110	123	116
4. Physical properties							
Water absorption at 23℃	62 method 1	%	0.3	0.3	0.3	0.3	0.3
Density	1183	g/cm3	1.20	1.20	1.19	1.19	1.19
5. Specific properties (not in ISO 10350)							
Refractive index	489	—	1.51	1.50	1.50	1.51	1.50
Total luminous transmittance	13468-1	%	92	92	92	91	92
Flexural modulus	178	MPa	3600	3400	3300	3500	3300
Flexural strength	178	MPa	130	130	130	120	1300
Rockwell hardness	2039-2	M scale	103	103	101	103	99
		R scale					
Mold shrinkage	ASAHIKASEI method	cm/cm	0.002～0.006	0.002～0.006	0.002～0.006	0.002～0.006	0.002～0.006

NOTE: The values in the above Table are representative values obtained using the noted test methods. Please use these values as a reference when selecting the most suitable grade for each respective use.
In addition, these values may change due to the improvement of properties. □