

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	2.8	cm ³ /10min	ISO 1133
Temperature	300	°C	-
Load	1.2	kg	-
Molding shrinkage, parallel	0.6	%	ISO 294-4, 2577
Molding shrinkage, normal	0.6	%	ISO 294-4, 2577
Mechanical properties			
Value	Unit	Test Standard	
ISO Data			
Tensile Modulus	2350	MPa	ISO 527
Yield stress	60	MPa	ISO 527
Yield strain	6	%	ISO 527
Nominal strain at break	>50	%	ISO 527
Flexural modulus, 23°C	2200	MPa	ISO 178
Flexural strength	90	MPa	ISO 178
Charpy impact strength, +23°C	N	kJ/m ²	ISO 179/1eU
Charpy notched impact strength, +23°C	89	kJ/m ²	ISO 179/1eA
Thermal properties			
Value	Unit	Test Standard	
ISO Data			
Temp. of deflection under load, 1.80 MPa	132	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	145	°C	ISO 75-1/-2
Vicat softening temperature, B	151	°C	ISO 306
Coeff. of linear therm. expansion, parallel	70	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	70	E-6/K	ISO 11359-1/-2
Burning behav. at thickness h	HB	class	IEC 60695-11-10
Thickness tested	0.4	mm	-
Electrical properties			
Value	Unit	Test Standard	
ISO Data			
Relative permittivity, 100Hz	3.1	-	IEC 62631-2-1
Relative permittivity, 1MHz	3	-	IEC 62631-2-1
Dissipation factor, 100Hz	10	E-4	IEC 62631-2-1
Dissipation factor, 1MHz	90	E-4	IEC 62631-2-1
Volume resistivity	>1E13	Ohm*m	IEC 62631-3-1
Surface resistivity	>1E15	Ohm	IEC 62631-3-2
Electric strength	30	kV/mm	IEC 60243-1
Comparative tracking index	250	-	IEC 60112
Optical properties			
Value	Unit	Test Standard	
ASTM Data			
Light Transmittance	88	%	ASTM D 1003
Index of Refraction	1.58	-	ASTM D 542
Other properties			
Value	Unit	Test Standard	
Density	1200	kg/m ³	ISO 1183
Processing Recommendation Injection Molding			
Value	Unit	Test Standard	
Pre-drying - Temperature	120	°C	-
Pre-drying - Time	>5	h	-
Melt temperature	270 - 320	°C	-
Mold temperature	80 - 120	°C	-

Characteristics

Panlite® K-1300Y

PC

Teijin Chemicals Ltd.

Processing

Injection Molding, Film Extrusion, Sheet Extrusion

Delivery form

Pellets

Additives

Release agent

Special Characteristics

Transparent

Regional Availability

North America, Europe, Asia Pacific, South and Central America, Near East/Africa