

Teijin Panlite® K-1300Y Standard (mold release/ice color grade) Polycarbonate Resin

Category : Polymer , Thermoplastic , Polycarbonate (PC) , Polycarbonate, Molded

Material Notes:

Extrusion molding, blow molding and thick-wall injection molding grade. It has a improved mold release property and is bluish-tinted to exhibit clear color.Applications:Extruded products such as sheets, films, pipes and profilesDirect-blow and injection-blow moldings such as bottles, tanks and containesrRotational forming products such as large-size tanks and large-size containers.Information provided by Teijin Chemicals Ltd.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Teijin-Panlite-K-1300Y-Standard-mold-releaseice-color-grade-Polycarbonate-Resin.php

Physical Properties	Metric	English	Comments
Density	1.20 g/cc	0.0434 lb/in ³	ISO 1183
Water Absorption	0.20 %	0.20 %	in water, 23 ^o C, 24h; ISO 62
Linear Mold Shrinkage	0.0050 - 0.0070 cm/cm	0.0050 - 0.0070 in/in	
	@Thickness 4.00 mm	@Thickness 0.157 in	
Linear Mold Shrinkage, Transverse	0.0050 - 0.0070 cm/cm	0.0050 - 0.0070 in/in	
	@Thickness 4.00 mm	@Thickness 0.157 in	
Melt Flow	3.0 g/10 min	3.0 g/10 min	ISO 1133
	@Load 1.20 kg, Temperature 300 ^o C	@Load 2.65 lb, Temperature 572 ^o F	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	60.0 MPa	8700 psi	50mm/min; ISO 527
Elongation at Break	>= 50 %	>= 50 %	50mm/min; ISO 527
Elongation at Yield	6.0 %	6.0 %	50mm/min; ISO 527
Tensile Modulus	2.35 GPa	341 ksi	1mm/min; ISO 527
Flexural Strength	90.0 MPa	13100 psi	2mm/min; ISO 178
Flexural Modulus	2.20 GPa	319 ksi	2mm/min; ISO 178
Charpy Impact Unnotched	NB	NB	ISO 179
Charpy Impact, Notched	8.90 J/cm ²	42.4 ft-lb/in ²	ISO 179

Thermal Properties	Metric	English	Comments
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Thermal Properties	Metric	English	Comments
CTE, linear	70.0 $\mu\text{m/m-}^{\circ}\text{C}$	38.9 $\mu\text{in/in-}^{\circ}\text{F}$	ISO 11359
	@Temperature 20.0 $^{\circ}\text{C}$	@Temperature 68.0 $^{\circ}\text{F}$	
CTE, linear, Transverse to Flow	70.0 $\mu\text{m/m-}^{\circ}\text{C}$	38.9 $\mu\text{in/in-}^{\circ}\text{F}$	ISO 11359
	@Temperature 20.0 $^{\circ}\text{C}$	@Temperature 68.0 $^{\circ}\text{F}$	
Deflection Temperature at 0.46 MPa (66 psi)	145 $^{\circ}\text{C}$	293 $^{\circ}\text{F}$	ISO 75
Deflection Temperature at 1.8 MPa (264 psi)	132 $^{\circ}\text{C}$	270 $^{\circ}\text{F}$	ISO 75
Vicat Softening Point	151 $^{\circ}\text{C}$	304 $^{\circ}\text{F}$	50 $^{\circ}\text{C/hr}$, 50N; ISO 306
UL RTI, Electrical	125 $^{\circ}\text{C}$	257 $^{\circ}\text{F}$	UL 746B
	@Thickness 1.47 mm	@Thickness 0.0579 in	
UL RTI, Mechanical with Impact	115 $^{\circ}\text{C}$	239 $^{\circ}\text{F}$	UL 746B
	@Thickness 1.47 mm	@Thickness 0.0579 in	
UL RTI, Mechanical without Impact	125 $^{\circ}\text{C}$	257 $^{\circ}\text{F}$	UL 746B
	@Thickness 1.47 mm	@Thickness 0.0579 in	
Flammability, UL94	HB	HB	
	@Thickness 0.380 mm	@Thickness 0.0150 in	

Optical Properties	Metric	English	Comments
Refractive Index	1.585	1.585	ASTM D542
Transmission, Visible	88 %	88 %	ASTM D1003
	@Thickness 3.00 mm	@Thickness 0.118 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	$\geq 1.00\text{e}+13 \text{ ohm-cm}$	$\geq 1.00\text{e}+13 \text{ ohm-cm}$	IEC 60093
Surface Resistance	$\geq 1.00\text{e}+15 \text{ ohm}$	$\geq 1.00\text{e}+15 \text{ ohm}$	IEC 60093
Dielectric Constant	3.0	3.0	IEC 60250
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
	3.1	3.1	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
Dielectric Strength	30.0 kV/mm	762 kV/in	IEC 60243
	0.0010	0.0010	

Designation Factor Electrical Properties	Metric @Frequency 100 Hz	English @Frequency 100 Hz	IEC 60250 Comments
	0.0090	0.0090	IEC 60250
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Comparative Tracking Index	250 V	250 V	IEC 60112

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