

Teijin Panlite® L-1250Z100 Transparent and Weather Resistant grade Polycarbonate Resin

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

Material Notes:

Conforms to SAE regulations. It is an injection molding grade that has normal fluidity and weather resistance and is bluish-tinted to exhibit clear color. Applications: Components of mechanical, electric, electronic, medical, safety and industrial equipment that need clear transparency, heat resistance and weather resistance. Information provided by Teijin Chemicals Ltd.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Teijin-Panlite-L-1250Z100-Transparent-and-Weather-Resistant-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°C, 24h; ISO 62
Linear Mold Shrinkage	0.0050 - 0.0070 cm/cm @Thickness 4.00 mm	0.0050 - 0.0070 in/in @Thickness 0.157 in	
Linear Mold Shrinkage, Transverse	0.0050 - 0.0070 cm/cm @Thickness 4.00 mm	0.0050 - 0.0070 in/in @Thickness 0.157 in	
Melt Flow	9.6 g/10 min @Load 1.20 kg, Temperature 300 °C	9.6 g/10 min @Load 2.65 lb, Temperature 572 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	61.0 MPa	8850 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	2.40 GPa	348 ksi	1mm/min; ISO 527
Flexural Strength	93.0 MPa	13500 psi	2mm/min; ISO 178
Flexural Modulus	2.35 GPa	341 ksi	2mm/min; ISO 178
Charpy Impact Unnotched	NB	NB	ISO 179
Charpy Impact, Notched	7.60 J/cm ²	36.2 ft-lb/in ²	ISO 179

Thermal Properties	Metric	English	Comments
	70.0 µm/m-°C	38.9 µin/in-°F	

CTE, linear Thermal Properties	Metric @ Temperature 20.0 Â°C	English @ Temperature 68.0 Â°F	ISO 11359 Comments
CTE, linear, Transverse to Flow	70.0 Âµm/m-Â°C @Temperature 20.0 Â°C	38.9 Âµin/in-Â°F @Temperature 68.0 Â°F	ISO 11359
Deflection Temperature at 0.46 MPa (66 psi)	142 Â°C	288 Â°F	ISO 75
Deflection Temperature at 1.8 MPa (264 psi)	129 Â°C	264 Â°F	ISO 75
Vicat Softening Point	149 Â°C	300 Â°F	50Â°C/hr, 50N; ISO 306
UL RTI, Electrical	125 Â°C @Thickness 1.47 mm	257 Â°F @Thickness 0.0579 in	UL 746B
UL RTI, Mechanical with Impact	115 Â°C @Thickness 1.47 mm	239 Â°F @Thickness 0.0579 in	UL 746B
UL RTI, Mechanical without Impact	125 Â°C @Thickness 1.47 mm	257 Â°F @Thickness 0.0579 in	UL 746B
Flammability, UL94	HB @Thickness 1.50 mm	HB @Thickness 0.0591 in	
	V-2 @Thickness 0.400 mm	V-2 @Thickness 0.0157 in	

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

Electrical Properties	Metric	English	Comments
Volume Resistivity	>= 1.00e+13 ohm-cm	>= 1.00e+13 ohm-cm	IEC 60093
Surface Resistance	>= 1.00e+15 ohm	>= 1.00e+15 ohm	IEC 60093
Dielectric Constant	3.0 @Frequency 1e+6 Hz	3.0 @Frequency 1e+6 Hz	IEC 60250
	3.1 @Frequency 100 Hz	3.1 @Frequency 100 Hz	IEC 60250

Dielectric Strength Electrical Properties	30.0 kV/mm Metric	762 kV/in English	IEC 60243 Comments
Dissipation Factor	0.0010	0.0010	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
	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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