

Teijin Panlite® L-1225ZL100 Transparent and Weather Resistant grade Polycarbonate Resin

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

Material Notes:

Conforms to SAE regulations. It is a thin wall injection molding grade as it has high fluidity, weather resistance and mold release property and is bluish-tinted to exhibit clear color. Applications: Thin wall components of mechanical, electric, electronic, medical, safety and industrial equipment. Extremely thin wall lamp-lens moldings. Information provided by Teijin Chemicals Ltd.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Teijin-Panlite-L-1225ZL100-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	30 g/10 min @Load 1.20 kg, Temperature 300 °C	30 g/10 min @Load 2.65 lb, Temperature 572 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	62.0 MPa	8990 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	95.0 MPa	13800 psi	2mm/min; ISO 178
Flexural Modulus	2.40 GPa	348 ksi	2mm/min; ISO 178
Charpy Impact Unnotched	NB	NB	ISO 179
Charpy Impact, Notched	1.30 J/cm ²	6.19 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)	136 Â°C	277 Â°F	ISO 75
Deflection Temperature at 1.8 MPa (264 psi)	123 Â°C	253 Â°F	ISO 75
Vicat Softening Point	142 Â°C	288 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 2.10 mm	HB @Thickness 0.0827 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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