

Teijin Panlite L-1250ZW Extrusion Grade Polycarbonate Resin

Categories: [Polymer](#); [Thermoplastic](#); [Polycarbonate](#); [Polycarbonate, Molded](#)

Material Notes: Information provided by Teijin Chemicals Ltd.

Vendors: No vendors are listed for this material. Please [click here](#) if you are a supplier and would like information on how to add your listing to this material.

Physical Properties	Metric	English	Comments
Density	1.20 g/cc	0.0434 lb/in ³	ISO 1183
Water Absorption	0.200 %	0.200 %	in water, 23°C, 24h; ISO 62
Linear Mold Shrinkage	0.00500 - 0.00700 cm/cm	0.00500 - 0.00700 in/in	4mm
Linear Mold Shrinkage, Transverse	0.00500 - 0.00700 cm/cm	0.00500 - 0.00700 in/in	4mm
Melt Flow	8.40 g/10 min	8.40 g/10 min	300°C, 1.2kg; ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	62.0 MPa	8990 psi	50mm/min; ISO 527
Elongation at Break	>= 50.0 %	>= 50.0 %	50mm/min; ISO 527
Elongation at Yield	6.00 %	6.00 %	50mm/min; ISO 527
Tensile Modulus	2.40 GPa	348 ksi	1mm/min; ISO 527
Flexural Modulus	2.35 GPa	341 ksi	2mm/min; ISO 178
Flexural Strength	93.0 MPa	13500 psi	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

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	3.00	3.00	IEC 60250
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
	3.10	3.10	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
Dielectric Strength	30.0 kV/mm	762 kV/in	IEC 60243
Dissipation Factor	0.00100	0.00100	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
	0.00900	0.00900	IEC 60250
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Comparative Tracking Index	250 V	250 V	IEC 60112

Thermal Properties	Metric	English	Comments
CTE, linear	70.0 µm/m-°C	38.9 µin/in-°F	ISO 11359
	@Temperature 20.0 °C	@Temperature 68.0 °F	
CTE, linear, Transverse to Flow	70.0 µm/m-°C	38.9 µin/in-°F	ISO 11359
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Deflection Temperature at 0.46 MPa (66 psi)	142 °C	288 °F	ISO 75
Deflection Temperature at 1.8 MPa (264 psi)	129 °C	264 °F	ISO 75
Vicat Softening Point	149 °C	300 °F	50°C/hr, 50N; ISO 306
UL RTI, Electrical	125 °C	257 °F	1.47 mm; UL 746B
UL RTI, Mechanical with Impact	115 °C	239 °F	1.47 mm; UL 746B
UL RTI, Mechanical without Impact	125 °C	257 °F	1.47 mm; UL 746B
Flammability, UL94	HB	HB	1.5 mm
	V-2	V-2	0.4mm

Optical Properties	Metric	English	Comments
Refractive Index	1.585	1.585	ASTM D542
Transmission, Visible	88.0 %	88.0 %	3mm; ASTM D1003

Some of the values displayed above may have been converted from their original units and/or rounded in order to display the information in a consistent format. Users requiring more precise data for scientific or engineering calculations can click on the property value to see the original value as well as raw conversions to equivalent units. We advise that you only use the original value or one of its raw conversions in your calculations to minimize rounding error. We also ask that you refer to MatWeb's disclaimer and terms of use regarding this information. [Click here](#) to view all the property values for this datasheet as they were originally entered into MatWeb.

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