

SABIC Innovative Plastics Lexan® EX1332T PC

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

Lexan® EX1332T polycarbonate resin is designed for use in multi-wall sheet or profile extrusion applications. It contains branched polycarbonate resin, release, and is UV stabilized. It is available in a limited number of colors.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-Lexan-EX1332T-PC.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.20 g/cc	1.20 g/cc	ASTM D792
Density	1.20 g/cc	0.0434 lb/in ³	ISO 1183
Linear Mold Shrinkage, Flow	0.0050 - 0.0070 cm/cm @Thickness 3.20 mm	0.0050 - 0.0070 in/in @Thickness 0.126 in	SABIC Method
Melt Flow	3.0 g/10 min @Load 1.20 kg, Temperature 300 °C	3.0 g/10 min @Load 2.65 lb, Temperature 572 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	58.0 MPa	8410 psi	Type I, 50 mm/min; ASTM D638
Tensile Strength, Yield	61.0 MPa	8850 psi	Type I, 50 mm/min; ASTM D638
Elongation at Break	96.3 %	96.3 %	Type I, 50 mm/min; ASTM D638
Elongation at Yield	6.2 %	6.2 %	Type I, 50 mm/min; ASTM D638
Tensile Modulus	2.20 GPa	319 ksi	5 mm/min; ASTM D638
Flexural Yield Strength	97.0 MPa	14100 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	2.33 GPa	338 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	8.12 J/cm	15.2 ft-lb/in	ASTM D256
	1.56 J/cm @Temperature -30.0 °C	2.92 ft-lb/in @Temperature -22.0 °F	ASTM D256
Dart Drop, Total Energy	72.0 J @Temperature 23.0 °C	53.1 ft-lb @Temperature 73.4 °F	ASTM D3763

Thermal Properties	Metric	English	Comments
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Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	65.0 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$ @Temperature -40.0 - 40.0 $^\circ\text{C}$	35.3 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$ @Temperature -40.0 - 104 $^\circ\text{F}$	ASTM E 831
CTE, linear, Transverse to Flow	68.0 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$ @Temperature -40.0 - 40.0 $^\circ\text{C}$	37.8 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$ @Temperature -40.0 - 104 $^\circ\text{F}$	ASTM E 831
Deflection Temperature at 0.46 MPa (66 psi)	141 $^\circ\text{C}$ @Thickness 3.20 mm	286 $^\circ\text{F}$ @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	131 $^\circ\text{C}$ @Thickness 3.20 mm	268 $^\circ\text{F}$ @Thickness 0.126 in	unannealed; ASTM D648
Vicat Softening Point	146 $^\circ\text{C}$	295 $^\circ\text{F}$	Rate B/50; ASTM D1525
	148 $^\circ\text{C}$	298 $^\circ\text{F}$	Rate B/120; ISO 306
Flammability, UL94	HB @Thickness 0.800 mm	HB @Thickness 0.0315 in	UL 94 by SABIC-IP

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