

SABIC Innovative Plastics Lexan® EM3110R PC

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

Automotive interiors. Optimizes flow/processability for cost effective thinner wall design uses. Internal mold release. This data was supplied by SABIC-IP for the Americas region.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-Lexan-EM3110R-PC.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.19 g/cc	1.19 g/cc	ASTM D 792
Water Absorption	0.16 % @Time 86400 sec	0.16 % @Time 24.0 hour	ASTM D 570
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	20 g/10 min @Load 1.20 kg, Temperature 300 °C	20 g/10 min @Load 2.65 lb, Temperature 572 °F	ASTM D 1238

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	55.0 MPa	7980 psi	Type I, 50 mm/min; ASTM D 638
Elongation at Break	90 %	90 %	Type I, 50 mm/min; ASTM D 638
Flexural Yield Strength	82.0 MPa	11900 psi	1.3 mm/min, 50 mm span; ASTM D 790
Flexural Modulus	2.17 GPa	315 ksi	1.3 mm/min, 50 mm span; ASTM D 790
Izod Impact, Notched	2.13 J/cm @Temperature -30.0 °C	3.99 ft-lb/in @Temperature -22.0 °F	ASTM D 256
	5.87 J/cm @Temperature -20.0 °C	11.0 ft-lb/in @Temperature -4.00 °F	ASTM D 256
	6.40 J/cm @Temperature 23.0 °C	12.0 ft-lb/in @Temperature 73.4 °F	ASTM D 256
	2.13 J/cm @Thickness 6.40 mm, Temperature 23.0 °C	3.99 ft-lb/in @Thickness 0.252 in, Temperature 73.4 °F	ASTM D 256
	56.0 J	41.3 ft-lb	Instrumented Impact Energy @ peak;

Impact Test Mechanical Properties	Metric @ Temperature 23.0 °C	English @ Temperature 73.4 °F	ASTM D 3763 Comments
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Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	64.8 µm/m-°C @Temperature -40.0 - 95.0 °C	36.0 µin/in-°F @Temperature -40.0 - 203 °F	ASTM E 831
Deflection Temperature at 0.46 MPa (66 psi)	126 °C @Thickness 6.40 mm	259 °F @Thickness 0.252 in	unannealed; ASTM D 648
Deflection Temperature at 1.8 MPa (264 psi)	118 °C @Thickness 3.20 mm	244 °F @Thickness 0.126 in	unannealed; ASTM D 648
	123 °C @Thickness 6.40 mm	253 °F @Thickness 0.252 in	unannealed; ASTM D 648

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