

SABIC Innovative Plastics Lexan® EM1210 PC

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

Automotive interiors. Excellent heat/impact resistance and outstanding property retention over wide temperature range/severe automotive conditions

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-Lexan-EM1210-PC.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.19 g/cc	1.19 g/cc	ASTM D792
Water Absorption	0.16 % @Time 86400 sec	0.16 % @Time 24.0 hour	ASTM D570
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	13 g/10 min @Load 1.20 kg, Temperature 300 °C	13 g/10 min @Load 2.65 lb, Temperature 572 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	57.0 MPa	8270 psi	Type I, 50 mm/min; ASTM D638
Elongation at Break	110 %	110 %	Type I, 50 mm/min; ASTM D638
Flexural Yield Strength	81.0 MPa	11700 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	2.03 GPa	294 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	7.74 J/cm	14.5 ft-lb/in	ASTM D256
	6.94 J/cm @Temperature -30.0 °C	13.0 ft-lb/in @Temperature -22.0 °F	ASTM D256
	6.94 J/cm @Thickness 6.40 mm	13.0 ft-lb/in @Thickness 0.252 in	ASTM D256
Dart Drop, Total Energy	61.0 J	45.0 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763
	65.0 J @Temperature -30.0 °C	47.9 ft-lb @Temperature -22.0 °F	Instrumented Impact Energy @ peak; ASTM D3763

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	64.8 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$	36.0 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$	ASTM E 831
	@Temperature -40.0 - 95.0 $^\circ\text{C}$	@Temperature -40.0 - 203 $^\circ\text{F}$	
Deflection Temperature at 0.46 MPa (66 psi)	135 $^\circ\text{C}$	275 $^\circ\text{F}$	unannealed; ASTM D648
	@Thickness 6.40 mm	@Thickness 0.252 in	
Deflection Temperature at 1.8 MPa (264 psi)	127 $^\circ\text{C}$	261 $^\circ\text{F}$	unannealed; ASTM D648
	@Thickness 6.40 mm	@Thickness 0.252 in	

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