

SABIC Innovative Plastics Lexan® EM3110 PC

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

Automotive interiors. Optimizes flow/processability for cost effective thinner wall design uses.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-Lexan-EM3110-PC.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.19 g/cc	1.19 g/cc	ASTM D792
Water Absorption	0.16 %	0.16 %	ASTM D570
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Flow	0.0050 - 0.0070 cm/cm	0.0050 - 0.0070 in/in	SABIC Method
	@Thickness 3.20 mm	@Thickness 0.126 in	
Melt Flow	20 g/10 min	20 g/10 min	ASTM D1238
	@Load 1.20 kg, Temperature 300 °C	@Load 2.65 lb, Temperature 572 °F	

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	6.40 J/cm	12.0 ft-lb/in	ASTM D256
	2.13 J/cm	3.99 ft-lb/in	ASTM D256
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	5.87 J/cm	11.0 ft-lb/in	ASTM D256
	@Temperature -20.0 °C	@Temperature -4.00 °F	
	2.13 J/cm	3.99 ft-lb/in	ASTM D256
	@Thickness 6.40 mm	@Thickness 0.252 in	
Dart Drop, Total Energy	56.0 J	41.3 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763

Thermal Properties	Metric	English	Comments
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Thermal Properties	Metric $^{\circ}\text{C}$	English $^{\circ}\text{F}$	Comments
CTE, linear, Parallel to Flow	@Temperature -40.0 - 95.0 $^{\circ}\text{C}$	@Temperature -40.0 - 203 $^{\circ}\text{F}$	ASTM E 831
Deflection Temperature at 0.46 MPa (66 psi)	126 $^{\circ}\text{C}$ @Thickness 6.40 mm	259 $^{\circ}\text{F}$ @Thickness 0.252 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	118 $^{\circ}\text{C}$ @Thickness 3.20 mm	244 $^{\circ}\text{F}$ @Thickness 0.126 in	unannealed; ASTM D648
	123 $^{\circ}\text{C}$ @Thickness 6.40 mm	253 $^{\circ}\text{F}$ @Thickness 0.252 in	unannealed; ASTM D648
UL RTI, Electrical	80.0 $^{\circ}\text{C}$	176 $^{\circ}\text{F}$	UL 746B
UL RTI, Mechanical with Impact	80.0 $^{\circ}\text{C}$	176 $^{\circ}\text{F}$	UL 746B
UL RTI, Mechanical without Impact	80.0 $^{\circ}\text{C}$	176 $^{\circ}\text{F}$	UL 746B
Flammability, UL94	HB @Thickness 1.47 mm	HB @Thickness 0.0579 in	UL 94

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China