

SABIC Innovative Plastics Lexan® FXE4271L PC (Asia Pacific)

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

Lexan® FXE4271L is a 10% glass filled, impact modified polycarbonate with excellent light-shield capability. It is designed for high flow, superior surface appearance, enhance release and good impact ductility. FXE4271L is available in white color only and ideal for light-shield applications.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-Lexan-FXE4271L-PC-Asia-Pacific.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.25 g/cc	1.25 g/cc	ASTM D792
Density	1.25 g/cc	0.0452 lb/in ³	ISO 1183
Moisture Absorption	0.0400 %	0.0400 %	23°C / 50% RH; ISO 62
Water Absorption at Saturation	0.13 %	0.13 %	ISO 62
Linear Mold Shrinkage, Flow	0.0020 - 0.0030 cm/cm @Thickness 3.20 mm	0.0020 - 0.0030 in/in @Thickness 0.126 in	SABIC Method
Linear Mold Shrinkage, Transverse	0.0040 - 0.0050 cm/cm @Thickness 3.20 mm	0.0040 - 0.0050 in/in @Thickness 0.126 in	SABIC Method
Melt Flow	15 g/10 min @Load 1.20 kg, Temperature 300 °C	15 g/10 min @Load 2.65 lb, Temperature 572 °F	ASTM D1238
Melt Index of Compound	14 g/10 min @Load 1.20 kg, Temperature 300 °C	14 g/10 min @Load 2.65 lb, Temperature 572 °F	MVR [cm ³ /10 min]; ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	37.0 MPa	5370 psi	Type I, 5 mm/min; ASTM D638
Tensile Strength, Yield	48.0 MPa	6960 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	11 %	11 %	Type I, 5 mm/min; ASTM D638
Elongation at Yield	4.0 %	4.0 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	3.85 GPa	558 ksi	5 mm/min; ASTM D638
Flexural Yield Strength	87.0 MPa	12600 psi	1.3 mm/min, 50 mm span; ASTM D790
	3.60 GPa	522 ksi	1.3 mm/min, 50 mm span; ASTM

Flexural Modulus Mechanical Properties	Metric	English	D790 Comments
Izod Impact, Notched	2.05 J/cm	3.84 ft-lb/in	ASTM D256
Izod Impact, Unnotched	18.8 J/cm	35.2 ft-lb/in	ASTM D4812
Dart Drop, Total Energy	36.0 J @Temperature 23.0 °C	26.6 ft-lb @Temperature 73.4 °F	ASTM D3763

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	127 °C @Thickness 3.20 mm	261 °F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	120 °C @Thickness 3.20 mm	248 °F @Thickness 0.126 in	unannealed; ASTM D648
Vicat Softening Point	132 °C	270 °F	Rate B/120; ISO 306
UL RTI, Electrical	80.0 °C	176 °F	UL 746B
UL RTI, Mechanical with Impact	80.0 °C	176 °F	UL 746B
UL RTI, Mechanical without Impact	80.0 °C	176 °F	UL 746B
Flammability, UL94	HB @Thickness 0.400 mm	HB @Thickness 0.0157 in	UL 94

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