

SABIC Innovative Plastics Lexan® 3412HF PC

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

20% glass reinforced, high flow PC. UL rated V-1 at 0.059",

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-Lexan-3412HF-PC.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.34 g/cc	1.34 g/cc	ASTM D792
Linear Mold Shrinkage, Flow	0.0020 - 0.0040 cm/cm @Thickness 3.20 mm	0.0020 - 0.0040 in/in @Thickness 0.126 in	SABIC Method
Linear Mold Shrinkage, Transverse	0.0045 - 0.0065 cm/cm @Thickness 3.20 mm	0.0045 - 0.0065 in/in @Thickness 0.126 in	SABIC Method
Melt Flow	8.5 g/10 min @Load 1.20 kg, Temperature 300 °C	8.5 g/10 min @Load 2.65 lb, Temperature 572 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	106 MPa	15400 psi	Type I, 5 mm/min; ASTM D638
Tensile Strength, Yield	99.0 MPa	14400 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	4.0 %	4.0 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	3.44 GPa	499 ksi	5 mm/min; ASTM D638
Flexural Strength	165 MPa	23900 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Yield Strength	156 MPa	22600 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	5.51 GPa	799 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	1.06 J/cm	1.99 ft-lb/in	ASTM D256
Izod Impact, Unnotched	5.34 J/cm	10.0 ft-lb/in	ASTM D4812
Dart Drop, Total Energy	3.00 J @Temperature 23.0 °C	2.21 ft-lb @Temperature 73.4 °F	ASTM D3763

Thermal Properties	Metric	English	Comments
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Thermal Properties (@ 0.46 MPa)	141 °C Metric	286 °F English	Comments ; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	
Deflection Temperature at 1.8 MPa (264 psi)	137 °C @Thickness 3.20 mm	279 °F @Thickness 0.126 in	unannealed; ASTM D648
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	V-1 @Thickness 1.49 mm	V-1 @Thickness 0.0587 in	UL 94
	V-0 @Thickness 2.99 mm	V-0 @Thickness 0.118 in	UL 94

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