

SABIC Innovative Plastics Lexan® FL3000 PC

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

Structural foam: 10% weight reduction at 0.250" wall with non-brominated and non-chlorinated FR systems. Impact modified PC with excellent low-temperature impact and UV-stability. 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-FL3000-PC.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.07 g/cc	1.07 g/cc	foam molded; ASTM D 792
	1.19 g/cc	1.19 g/cc	ASTM D 792
Linear Mold Shrinkage, Flow	0.0040 - 0.0080 cm/cm	0.0040 - 0.0080 in/in	SABIC Method
	@Thickness 6.40 mm	@Thickness 0.252 in	
Melt Flow	9.5 g/10 min	9.5 g/10 min	ASTM D 1238
	@Load 1.20 kg, Temperature 300 °C	@Load 2.65 lb, Temperature 572 °F	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	40.0 MPa	5800 psi	ASTM D 638
	@Thickness 6.35 mm	@Thickness 0.250 in	
Elongation at Break	3.2 %	3.2 %	ASTM D 638
	@Thickness 6.35 mm	@Thickness 0.250 in	
Tensile Modulus	2.81 GPa	408 ksi	ASTM D 638
	@Thickness 6.40 mm	@Thickness 0.252 in	
Flexural Yield Strength	72.0 MPa	10400 psi	ASTM D 790
	@Thickness 6.40 mm	@Thickness 0.252 in	
Flexural Modulus	1.89 GPa	274 ksi	ASTM D 790
	@Thickness 6.40 mm	@Thickness 0.252 in	
Izod Impact, Unnotched	9.07 J/cm	17.0 ft-lb/in	ASTM D 4812
	@Thickness 6.40 mm, Temperature 23.0 °C	@Thickness 0.252 in, Temperature 73.4 °F	
Impact Test	89.0 J	65.6 ft-lb	Instrumented Impact Total Energy; ASTM D 3763
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	94.0 J	69.3 ft-lb	

Mechanical Properties	Metric @ Temperature -20.0 °C	English @ Temperature -4.00 °F	Instrumented Impact Total Energy; ASTM D 3763 Comments
	94.0 J	69.3 ft-lb	Instrumented Impact Total Energy; ASTM D 3763
	@Temperature -40.0 °C	@Temperature -40.0 °F	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	131 °C @Thickness 6.40 mm	268 °F @Thickness 0.252 in	unannealed; ASTM D 648
Deflection Temperature at 1.8 MPa (264 psi)	120 °C @Thickness 6.40 mm	248 °F @Thickness 0.252 in	unannealed; ASTM D 648
UL RTI, Electrical	50.0 °C	122 °F	UL 746B
UL RTI, Mechanical with Impact	50.0 °C	122 °F	UL 746B
UL RTI, Mechanical without Impact	50.0 °C	122 °F	UL 746B
Flammability, UL94	V-0 @Thickness 2.99 mm	V-0 @Thickness 0.118 in	UL 94
	5VA @Thickness 6.09 mm	5VA @Thickness 0.240 in	UL 94

Descriptive Properties	Value	Comments
FOAM - Flame Class Minimum Density, g/cm ³	1.07	-
FOAM - IMPACT 6.4 mm Wt Reduction, %	10	-
FOAM - MECHANICAL 6.4 mm Wt Reduction, %	10	-
FOAM - PHYSICAL 6.4mm Wt Reduction, %	10	-
FOAM - THERMAL 6.4mm Wt Reduction, %	10	-
UV-light, water exposure/immersion	F1	UL 746C

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