

SABIC Innovative Plastics Lexan® ML4588 PC

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

Extrusion and extrusion blowmolding grade for aircraft applications. Meets FAR 25.853 (60 seconds/30 mils). 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-ML4588-PC.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.21 g/cc	1.21 g/cc	ASTM D 792
Melt Flow	2.5 g/10 min	2.5 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	62.0 MPa	8990 psi	Type I, 50 mm/min; ASTM D 638
Tensile Strength, Yield	64.0 MPa	9280 psi	Type I, 50 mm/min; ASTM D 638
Elongation at Yield	65 %	65 %	Type I, 50 mm/min; ASTM D 638
Flexural Yield Strength	97.0 MPa	14100 psi	1.3 mm/min, 50 mm span; ASTM D 790
Flexural Modulus	2.48 GPa	360 ksi	1.3 mm/min, 50 mm span; ASTM D 790
Izod Impact, Notched	7.20 J/cm	13.5 ft-lb/in	ASTM D 256
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Impact Test	59.0 J	43.5 ft-lb	Instrumented Impact Energy @ peak; ASTM D 3763
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	132 °C	270 °F	unannealed; ASTM D 648
	@Thickness 6.40 mm	@Thickness 0.252 in	

Descriptive Properties	Value	Comments
FAA Flammability, FAR 25.853 A/B	(A), 1, (I)	FAR 25.853

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