

SABIC Innovative Plastics Lexan® ML4249 PC

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

Polycarbonate for aircraft applications requiring FAR 25.853a compliance. Transparent, translucent and opaque colors. For blow molding.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-Lexan-ML4249-PC.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.28 g/cc	1.28 g/cc	ASTM D792
Melt Flow	2.8 g/10 min	2.8 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 at Break	59.0 MPa	8560 psi	Type I, 50 mm/min; ASTM D638
Tensile Strength, Yield	67.0 MPa	9720 psi	Type I, 50 mm/min; ASTM D638
Elongation at Yield	85 %	85 %	Type I, 50 mm/min; ASTM D638
Flexural Yield Strength	105 MPa	15200 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	2.70 GPa	392 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	0.900 J/cm	1.69 ft-lb/in	ASTM D256
Izod Impact, Unnotched	32.04 J/cm	60.02 ft-lb/in	ASTM D4812
Tensile Impact Strength	493 kJ/m ²	235 ft-lb/in ²	Type S; ASTM D1822
Dart Drop, Total Energy	49.0 J	36.1 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	146 °C	295 °F	unannealed; ASTM D648
	@Thickness 6.40 mm	@Thickness 0.252 in	

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