

SABIC Innovative Plastics Lexan® ML4248 PC

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

Polycarbonate for aircraft applications requiring FAR 25.853a compliance. Extrusion grade. Transparent, translucent and opaque colors.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-Lexan-ML4248-PC.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.26 g/cc	1.26 g/cc	ASTM D792
Linear Mold Shrinkage, Flow	0.0050 - 0.0070 cm/cm @Thickness 3.20 mm	0.0050 - 0.0070 in/in @Thickness 0.126 in	SABIC Method
Melt Flow	6.4 g/10 min @Load 1.20 kg, Temperature 300 °C	6.4 g/10 min @Load 2.65 lb, Temperature 572 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	65.0 MPa	9430 psi	Type I, 50 mm/min; ASTM D638
Tensile Strength, Yield	58.0 MPa	8410 psi	Type I, 50 mm/min; ASTM D638
Elongation at Break	110 %	110 %	Type I, 50 mm/min; ASTM D638
Elongation at Yield	6.0 %	6.0 %	Type I, 50 mm/min; ASTM D638
Tensile Modulus	2.37 GPa	344 ksi	50 mm/min; ASTM D638
Flexural Yield Strength	93.0 MPa	13500 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	2.37 GPa	344 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	6.40 J/cm	12.0 ft-lb/in	ASTM D256
Izod Impact, Unnotched	32.04 J/cm	60.02 ft-lb/in	ASTM D4812
Tensile Impact Strength	577 kJ/m ²	275 ft-lb/in ²	Type S; ASTM D1822

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	68.4 μm/m-°C @Temperature -40.0 - 95.0 °C	38.0 μin/in-°F @Temperature -40.0 - 203 °F	ASTM E 831
Deflection Temperature at 0.46 MPa (66 psi)	143 °C	289 °F	unannealed; ASTM D648

Thermal Properties	@Thickness 6.40 mm Metric	@Thickness 0.252 in English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	132 °C @Thickness 6.40 mm	270 °F @Thickness 0.252 in	unannealed; ASTM D648

Descriptive Properties	Value	Comments
FAA Flammability, FAR 25.853 A/B	PASSES	FAR 25.853

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