

## SABIC Innovative Plastics Lexan® ML4539 PC

Category : Polymer , Thermoplastic , Polycarbonate (PC)

### Material Notes:

Polycarbonate for aircraft applications requiring FAR 25.853a compliance. Injection moldable. Opaque colors.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_SABIC-Innovative-Plastics-Lexan-ML4539-PC.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-Lexan-ML4539-PC.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.21 g/cc	1.21 g/cc	ASTM D792
Water Absorption	0.15 %	0.15 %	ASTM D570
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Flow	0.0050 - 0.0070 cm/cm	0.0050 - 0.0070 in/in	SABIC Method
	@Thickness 3.20 mm	@Thickness 0.126 in	
Melt Flow	9.0 g/10 min	9.0 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	55.0 MPa	7980 psi	Type I, 50 mm/min; ASTM D638
Tensile Strength, Yield	62.0 MPa	8990 psi	Type I, 50 mm/min; ASTM D638
Elongation at Break	90 %	90 %	Type I, 50 mm/min; ASTM D638
Elongation at Yield	7.0 %	7.0 %	Type I, 50 mm/min; ASTM D638
Flexural Yield Strength	91.0 MPa	13200 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	2.24 GPa	325 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	525 kJ/m <sup>2</sup>	250 ft-lb/in <sup>2</sup>	Type S; ASTM D1822

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	137 °C	279 °F	unannealed; ASTM D648
	@Thickness 6.40 mm	@Thickness 0.252 in	
Deflection Temperature at 1.8 MPa	132 °C	270 °F	

Thermal Properties <small>(264 psi)</small>	Metric @ Thickness 6.40 mm	English @ Thickness 0.252 in	unannealed; ASTM D648 Comments
<b>Descriptive Properties</b>		<b>Value</b>	<b>Comments</b>
FAA Flammability, FAR 25.853 A/B		PASSES	FAR 25.853
Specific Volume		0.83cm <sup>3</sup> /g	ASTM D792

## Contact Songhan Plastic Technology Co.,Ltd.

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