

## SABIC Innovative Plastics Lexan® ML7672 PC (Asia Pacific)

Category : Polymer , Thermoplastic , Polycarbonate (PC)

### Material Notes:

Non FR PC + GF, UV-Stabilizer, balanced flow & impact. Available in Opaque only.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_SABIC-Innovative-Plastics-Lexan-ML7672-PC-Asia-Pacific.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-Lexan-ML7672-PC-Asia-Pacific.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.33 g/cc	1.33 g/cc	ASTM D792
Density	1.33 g/cc	0.0480 lb/in <sup>3</sup>	ISO 1183
Moisture Absorption	0.300 %	0.300 %	23°C / 50% RH; ISO 62
Water Absorption at Saturation	0.20 %	0.20 %	ISO 62
Linear Mold Shrinkage, Flow	0.0020 - 0.0060 cm/cm @Thickness 3.20 mm	0.0020 - 0.0060 in/in @Thickness 0.126 in	SABIC Method
Melt Flow	4.5 g/10 min @Load 1.20 kg, Temperature 300 °C	4.5 g/10 min @Load 2.65 lb, Temperature 572 °F	ASTM D1238
Melt Index of Compound	5.0 g/10 min @Load 1.20 kg, Temperature 300 °C	5.0 g/10 min @Load 2.65 lb, Temperature 572 °F	MVR [cm <sup>3</sup> /10 min]; ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	52.0 MPa	7540 psi	Type I, 5 mm/min; ASTM D638
	57.0 MPa	8270 psi	5 mm/min; ISO 527
Tensile Strength, Yield	11.0 MPa	1600 psi	5 mm/min; ISO 527
Elongation at Break	1.8 %	1.8 %	5 mm/min; ISO 527
	5.0 %	5.0 %	Type I, 5 mm/min; ASTM D638
Elongation at Yield	0.30 %	0.30 %	5 mm/min; ISO 527
Tensile Modulus	5.20 GPa	754 ksi	5 mm/min; ASTM D638
	5.63 GPa	817 ksi	1 mm/min; ISO 527
Flexural Yield Strength	99.0 MPa	14400 psi	1.3 mm/min, 50 mm span; ASTM D790
	100 MPa	14500 psi	2 mm/min; ISO 178

Mechanical Properties	Metric	English	Comments
Flexural Modulus	4.88 GPa	705 ksi	2 mm/min; 50 mm span; ASTM D790
	5.48 GPa	795 ksi	2 mm/min; ISO 178
Izod Impact, Notched	2.40 J/cm	4.50 ft-lb/in	ASTM D256
Izod Impact, Notched (ISO)	18.0 kJ/m <sup>2</sup>	8.57 ft-lb/in <sup>2</sup>	80*10*4; ISO 180/1A
Charpy Impact, Notched	1.90 J/cm <sup>2</sup>	9.04 ft-lb/in <sup>2</sup>	Edgew 80*10*4 sp=62mm; ISO 179/1eA
Dart Drop, Total Energy	28.0 J	20.7 ft-lb	ASTM D3763
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	27.0 µm/m-°C	15.0 µin/in-°F	ASTM E 831
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
	27.0 µm/m-°C	15.0 µin/in-°F	ISO 11359-2
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
CTE, linear, Transverse to Flow	69.0 µm/m-°C	38.3 µin/in-°F	ASTM E 831
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
	69.0 µm/m-°C	38.3 µin/in-°F	ISO 11359-2
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
Deflection Temperature at 1.8 MPa (264 psi)	140 °C	284 °F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	138 °C	280 °F	
	@Thickness 3.20 mm	@Thickness 0.126 in	unannealed; ASTM D648
Vicat Softening Point	143 °C	289 °F	Rate B/50; ASTM D1525
	143 °C	289 °F	Rate B/50; ISO 306
	145 °C	293 °F	Rate B/120; ISO 306

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