

SABIC Innovative Plastics Lexan® ML7667 PC Copolymer

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

Lexan® ML7667 specialty polycarbonate (PC) resin is a 9% GF reinforced, UV stabilized, flame retarded injection molding grade. This medium flow specialty PC resin combines UL94 V0 @ 1.5mm, 5VB @ 3.0mm flame retardancy based on non-chlorine, non-bromine FR agents with excellent processability, improved release performance and good impact performance. This product is available in limited opaque colors only and may be an excellent candidate for a broad range of applications, i.e. electrical and electronic enclosure applications.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-Lexan-ML7667-PC-Copolymer.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.26 g/cc	1.26 g/cc	ASTM D792
Density	1.26 g/cc	0.0455 lb/in ³	ISO 1183
Moisture Absorption	0.400 %	0.400 %	23°C / 50% RH; ISO 62
Water Absorption at Saturation	0.15 %	0.15 %	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	9.0 g/10 min @Load 1.20 kg, Temperature 300 °C	9.0 g/10 min @Load 2.65 lb, Temperature 572 °F	ASTM D1238
Melt Index of Compound	8.0 g/10 min @Load 1.20 kg, Temperature 300 °C	8.0 g/10 min @Load 2.65 lb, Temperature 572 °F	MVR [cm ³ /10 min]; ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	44.0 MPa	6380 psi	Type I, 5 mm/min; ASTM D638
	46.0 MPa	6670 psi	5 mm/min; ISO 527
Tensile Strength, Yield	54.0 MPa	7830 psi	5 mm/min; ISO 527
	55.0 MPa	7980 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	13 %	13 %	5 mm/min; ISO 527
	15 %	15 %	Type I, 5 mm/min; ASTM D638
Elongation at Yield	4.4 %	4.4 %	Type I, 5 mm/min; ASTM D638

Mechanical Properties	Metric	English	Comments
Tensile Modulus	3.50 GPa	508 ksi	5 mm/min; ASTM D638
	3.60 GPa	522 ksi	1 mm/min; ISO 527
Flexural Yield Strength	96.0 MPa	13900 psi	2 mm/min; ISO 178
	97.0 MPa	14100 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	3.15 GPa	457 ksi	1.3 mm/min, 50 mm span; ASTM D790
	3.40 GPa	493 ksi	2 mm/min; ISO 178
Izod Impact, Notched	3.40 J/cm	6.37 ft-lb/in	ASTM D256
	1.50 J/cm @Temperature -30.0 °C	2.81 ft-lb/in @Temperature -22.0 °F	ASTM D256
Izod Impact, Notched (ISO)	25.0 kJ/m ²	11.9 ft-lb/in ²	80*10*3; ISO 180/1A
	10.0 kJ/m ² @Temperature -30.0 °C	4.76 ft-lb/in ² @Temperature -22.0 °F	80*10*3; ISO 180/1A
Izod Impact, Unnotched (ISO)	NB	NB	80*10*3; ISO 180/1U
	NB @Temperature -30.0 °C	NB @Temperature -22.0 °F	80*10*3; ISO 180/1U
Charpy Impact Unnotched	NB	NB	Edgew 80*10*3 sp=62mm; ISO 179/1eU
	NB @Temperature -30.0 °C	NB @Temperature -22.0 °F	Edgew 80*10*3 sp=62mm; ISO 179/1eU
Charpy Impact, Notched	2.50 J/cm ²	11.9 ft-lb/in ²	Edgew 80*10*3 sp=62mm; ISO 179/1eA
	1.50 J/cm ² @Temperature -30.0 °C	7.14 ft-lb/in ² @Temperature -22.0 °F	Edgew 80*10*3 sp=62mm; ISO 179/1eA
Dart Drop, Total Energy	40.0 J	29.5 ft-lb	ASTM D3763
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	47.0 µm/m-°C	26.1 µin/in-°F	ASTM E 831
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	

Thermal Properties	47.0 μm/m-°C Metric	26.1 μin/in-°F English	Comments ISO 11359-2
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
CTE, linear, Transverse to Flow	70.0 μm/m-°C	38.9 μin/in-°F	ASTM E 831
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
	70.0 μm/m-°C	38.9 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)	132 °C	270 °F	Edgew 120*10*4 sp=100mm; ISO 75/Ae
	135 °C	275 °F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	
Vicat Softening Point	145 °C	293 °F	Rate B/50; ISO 306
	146 °C	295 °F	Rate B/120; ISO 306
	146 °C	295 °F	Rate B/50; ASTM D1525
Flammability, UL94	HB	HB	UL 94 by SABIC-IP
	@Thickness 0.750 mm	@Thickness 0.0295 in	
	V-0	V-0	UL 94 by SABIC-IP
@Thickness 1.50 mm	@Thickness 0.0591 in		
	5VB	5VB	UL 94 by SABIC-IP
	@Thickness 3.00 mm	@Thickness 0.118 in	
Glow Wire Test	825 °C	1520 °F	IEC 60695-2-13
	825 °C	1520 °F	IEC 60695-2-13
	825 °C	1520 °F	IEC 60695-2-13
	825 °C	1520 °F	IEC 60695-2-13
	960 °C	1760 °F	IEC 60695-2-12
@Thickness 1.10 mm	@Thickness 0.0433 in		

Electrical Properties	Metric	English	Comments
Comparative Tracking Index	175 V	175 V	IEC 60112
	175 - 250 V	175 - 250 V	UL 746A

Descriptive Properties	Value	Comments
Ball Pressure Test, 125°C +/- 2°C	passes	IEC 60695-10-2

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