SABIC Innovative Plastics Lexan® ML6230 PC Copolymer (Europe-Africa-Middle East)

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

Low viscosity PC copolymer blend with enhanced UV stabilization and added release agent. Available in transparent and tinted colors.This data was supplied by SABIC-IP for the Europe-Africa-Middle East region.

Order this product through the following link:
http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-Lexan-ML6230-PC-Copolymer-Europe-Africa-Middle-East.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.20 g/cc	1.20 g/cc	ASTM D 792
Density	1.20 g/cc	0.0434 lb/in³	ISO 1183
Moisture Absorption at Equilibrium	0.15 %	0.15 %	23°C / 50% RH; ISO 62
Water Absorption at Saturation	0.35 % @Temperature 23.0 °C	0.35 % @Temperature 73.4 °F	ISO 62
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	16 g/10 min @Load 1.20 kg, Temperature 300 °C	16 g/10 min @Load 2.65 lb, Temperature 572 °F	[cm^3/10 min] Melt Volume Rate; ISO 1133
	17.5 g/10 min @Load 1.20 kg, Temperature 300 °C	17.5 g/10 min @Load 2.65 lb, Temperature 572 °F	ASTM D 1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	67.0 MPa	9720 psi	Type I, 50 mm/min; ASTM D 638
	70.0 MPa	10200 psi	50 mm/min; ISO 527
Tensile Strength, Yield	65.0 MPa	9430 psi	Type I, 50 mm/min; ASTM D 638
	67.0 MPa	9720 psi	50 mm/min; ISO 527
Elongation at Break	>= 100 %	>= 100 %	Type I, 50 mm/min; ASTM D 638
	>= 100 %	>= 100 %	50 mm/min; ISO 527
Elongation at Yield	6.0 %	6.0 %	Type I, 50 mm/min; ASTM D 638
	6.0 %	6.0 %	50 mm/min; ISO 527

Mechanical Properties	Metric	English	Comments
	2.40 GPa	348 ksi	5 mm/min; ASTM D 638
Flexural Yield Strength	96.0 MPa	13900 psi	1.3 mm/min, 50 mm span; ASTM D 790
	96.0 MPa	13900 psi	2 mm/min; ISO 178
Flexural Modulus	2.45 GPa	355 ksi	1.3 mm/min, 50 mm span; ASTM D 790
	2.45 GPa	355 ksi	2 mm/min; ISO 178
Izod Impact, Notched	1.30 J/cm @Temperature -30.0 °C	2.44 ft-lb/in @Temperature -22.0 °F	ASTM D 256
	7.80 J/cm @Temperature 23.0 °C	14.6 ft-lb/in @Temperature 73.4 °F	ASTM D 256
Impact Test	80.0 J @Temperature 23.0 °C	59.0 ft-lb @Temperature 73.4 °F	Instrumented Impact Total Energy; ASTM D 3763

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	70.0 µm/m-°C @Temperature -40.0 - 40.0 °C	38.9 µin/in-°F @Temperature -40.0 - 104 °F	ASTM E 831
	70.0 µm/m-°C @Temperature -40.0 - 40.0 °C	38.9 µin/in-°F @Temperature -40.0 - 104 °F	ISO 11359-2
CTE, linear, Transverse to Flow	70.0 µm/m-°C @Temperature -40.0 - 40.0 °C	38.9 µin/in-°F @Temperature -40.0 - 104 °F	ASTM E 831
	70.0 µm/m-°C @Temperature -40.0 - 40.0 °C	38.9 µin/in-°F @Temperature -40.0 - 104 °F	ISO 11359-2
Deflection Temperature at 1.8 MPa (264 psi)	118 °C	244 °F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	133 °C @Thickness 3.20 mm	271 °F @Thickness 0.126 in	unannealed; ASTM D 648
Vicat Softening Point	136 °C	277 °F	Rate B/50; ISO 306
	137 °C	279 °F	Rate B/120; ISO 306

Thermal Properties	Metric	English	Comments
	148 °C	298 °F	Rate B/50; ASTM D 1525
Flammability, UL94	V-2 @Thickness 1.50 mm	V-2 @Thickness 0.0591 in	UL 94 by SABIC-IP
Glow Wire Test	825 °C @Thickness 1.00 mm	1520 °F @Thickness 0.0394 in	Glow Wire Ignitability Temperature; IEC 60695-2-13
	825 °C @Thickness 2.00 mm	1520 °F @Thickness 0.0787 in	Glow Wire Ignitability Temperature; IEC 60695-2-13
	825 °C @Thickness 2.50 mm	1520 °F @Thickness 0.0984 in	Glow Wire Ignitability Temperature; IEC 60695-2-13
	825 °C @Thickness 3.00 mm	1520 °F @Thickness 0.118 in	Glow Wire Ignitability Temperature; IEC 60695-2-13
	960 °C @Thickness 1.50 mm	1760 °F @Thickness 0.0591 in	Glow Wire Flammability Index; IEC 60695-2-12

Optical Properties	Metric	English	Comments
Haze	0.60 % @Thickness 2.54 mm	0.60 % @Thickness 0.100 in	ASTM D 1003
Transmission, Visible	89 % @Thickness 2.54 mm	89 % @Thickness 0.100 in	ASTM D 1003

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

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