

SABIC Innovative Plastics LNP THERMOCOMP Lexan_BFL2200 PC

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

design for black light frame application as high flow PC, V-2, high reflection grade.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-LexanBFL2200-PC.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.28 g/cc	1.28 g/cc	ASTM D792
Density	1.28 g/cc	0.0462 lb/in ³	ISO 1183
Moisture Absorption	0.100 %	0.100 %	23 ^o C / 50% RH; ISO 62
Water Absorption at Saturation	0.20 %	0.20 %	ISO 62
Linear Mold Shrinkage, Flow	0.0074 - 0.0076 cm/cm @Thickness 3.20 mm	0.0074 - 0.0076 in/in @Thickness 0.126 in	SABIC Method
Melt Flow	36.1 g/10 min @Load 1.20 kg, Temperature 300 ^o C	36.1 g/10 min @Load 2.65 lb, Temperature 572 ^o F	ASTM D1238
Melt Index of Compound	35 g/10 min @Load 1.20 kg, Temperature 300 ^o C	35 g/10 min @Load 2.65 lb, Temperature 572 ^o F	MVR [cm ³ /10 min]; ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	47.0 MPa	6820 psi	5 mm/min; ISO 527
	50.0 MPa	7250 psi	Type I, 5 mm/min; ASTM D638
Tensile Strength, Yield	55.0 MPa	7980 psi	Type I, 5 mm/min; ASTM D638
	55.0 MPa	7980 psi	5 mm/min; ISO 527
Elongation at Break	47.9 %	47.9 %	5 mm/min; ISO 527
	59 %	59 %	Type I, 5 mm/min; ASTM D638
Elongation at Yield	5.4 %	5.4 %	Type I, 5 mm/min; ASTM D638
	5.4 %	5.4 %	5 mm/min; ISO 527
Tensile Modulus	2.59 GPa	376 ksi	5 mm/min; ASTM D638
Flexural Yield Strength	84.0 MPa	12200 psi	1.3 mm/min, 50 mm span; ASTM D790

Mechanical Properties	Metric	English	Comments
Flexural Modulus	2.22 GPa	322 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	5.47 J/cm	10.2 ft-lb/in	ASTM D256
	1.59 J/cm	2.98 ft-lb/in	ASTM D256
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Izod Impact, Notched (ISO)	30.0 kJ/m ²	14.3 ft-lb/in ²	80*10*4; ISO 180/1A
	15.0 kJ/m ²	7.14 ft-lb/in ²	80*10*4; ISO 180/1A
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Charpy Impact, Notched	3.40 J/cm ²	16.2 ft-lb/in ²	Edgew 80*10*4 sp=62mm; ISO 179/1eA

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	61.2 Åµm/m-Å°C	34.0 Åµin/in-Å°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
	68.2 Åµm/m-Å°C	37.9 Åµin/in-Å°F	ASTM E 831
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
CTE, linear, Transverse to Flow	68.6 Åµm/m-Å°C	38.1 Åµin/in-Å°F	ASTM E 831
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
	68.8 Åµm/m-Å°C	38.2 Åµin/in-Å°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
Deflection Temperature at 1.8 MPa (264 psi)	172 Å°C	342 Å°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	125 Å°C	257 Å°F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	
Vicat Softening Point	144 Å°C	291 Å°F	Rate B/50; ASTM D1525
	144 Å°C	291 Å°F	Rate B/50; ISO 306
	146 Å°C	295 Å°F	Rate B/120; ISO 306

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