

SABIC Innovative Plastics Lexan® LUX2289 PC (Europe-Africa-Middle East)

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

Lexan® LUX2289 resin is an injection molding grade with high light reflectance and UV stabilized

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-Lexan-LUX2289-PC-Europe-Africa-Middle-East.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.34 g/cc	1.34 g/cc	ASTM D792
Density	1.31 g/cc	0.0473 lb/in ³	ISO 1183
Moisture Absorption	0.150 %	0.150 %	23°C / 50% RH; ISO 62
Water Absorption at Saturation	0.35 %	0.35 %	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	17 g/10 min @Load 1.20 kg, Temperature 300 °C	17 g/10 min @Load 2.65 lb, Temperature 572 °F	ASTM D1238
Melt Index of Compound	16 g/10 min @Load 1.20 kg, Temperature 300 °C	16 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	61.0 MPa	8850 psi	Type I, 50 mm/min; ASTM D638
	62.0 MPa	8990 psi	50 mm/min; ISO 527
Tensile Strength, Yield	60.0 MPa	8700 psi	Type I, 50 mm/min; ASTM D638
	61.0 MPa	8850 psi	50 mm/min; ISO 527
Elongation at Break	120 %	120 %	Type I, 50 mm/min; ASTM D638
Elongation at Yield	6.0 %	6.0 %	Type I, 50 mm/min; ASTM D638
	6.0 %	6.0 %	50 mm/min; ISO 527
Flexural Strength	70.0 MPa	10200 psi	ISO 178
Flexural Yield Strength	98.0 MPa	14200 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	2.50 GPa	363 ksi	ISO 178

Mechanical Properties	Metric	English	Comments
	2.67 GPa	387 ksi	10 mm thickness, 50 mm span; ASTM D790
Izod Impact, Notched	6.48 J/cm	12.1 ft-lb/in	ASTM D256
	1.65 J/cm	3.09 ft-lb/in	ASTM D256
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Izod Impact, Unnotched	1.70 J/cm	3.18 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	52.0 kJ/m ²	24.7 ft-lb/in ²	80*10*3; ISO 180/1A
	13.0 kJ/m ²	6.19 ft-lb/in ²	80*10*3; ISO 180/1A
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Izod Impact, Unnotched (ISO)	170 kJ/m ²	80.9 ft-lb/in ²	80*10*4; ISO 180/1U
	160 kJ/m ²	76.1 ft-lb/in ²	80*10*3; ISO 180/1U
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Charpy Impact Unnotched	14.0 J/cm ²	66.6 ft-lb/in ²	Edgew 80*10*3 sp=62mm; ISO 179/1eU
	14.0 J/cm ²	66.6 ft-lb/in ²	Edgew 80*10*3 sp=62mm; ISO 179/1eU
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Charpy Impact, Notched	17.5 J/cm ²	83.3 ft-lb/in ²	Edgew 80*10*3 sp=62mm; ISO 179/1eA
	17.5 J/cm ²	83.3 ft-lb/in ²	Edgew 80*10*3 sp=62mm; ISO 179/1eA
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Dart Drop, Total Energy	69.0 J	50.9 ft-lb	ASTM D3763
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	60.0 μm/m-°C	33.3 μin/in-°F	ASTM E 831
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
CTE, linear, Transverse to Flow	63.0 μm/m-°C	35.0 μin/in-°F	ASTM E 831
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
Deflection Temperature at 0.46 MPa (66 psi)	136 °C	277 °F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	
Deflection Temperature at 1.8 MPa (264 psi)	123 °C	253 °F	Annealed 120°C, 2hrs; ISO 75/Ae

Thermal Properties	124 °C Metric	255 °F English	Comments Unfinished; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	
Vicat Softening Point	142 °C	288 °F	Rate B/50; ASTM D1525
	144 °C	291 °F	Rate A/50; ISO 306
	145 °C	293 °F	Rate B/50; ISO 306
Flammability, UL94	HB	HB	UL 94
	@Thickness 1.00 mm	@Thickness 0.0394 in	
	V-2	V-2	UL 94
	@Thickness 1.50 mm	@Thickness 0.0591 in	
Glow Wire Test	850 °C	1560 °F	IEC 60695-2-13
	960 °C	1760 °F	IEC 60695-2-12
	@Thickness 1.00 mm	@Thickness 0.0394 in	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China