

## SABIC Innovative Plastics Lexan® LUX2289 PC

Category : Polymer , Thermoplastic , Polycarbonate (PC)

### Material Notes:

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

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_SABIC-Innovative-Plastics-Lexan-LUX2289-PC.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-Lexan-LUX2289-PC.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 <sup>3</sup>	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

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	61.0 MPa	8850 psi	Type I, 50 mm/min; ASTM D638
Tensile Strength, Yield	60.0 MPa	8700 psi	Type I, 50 mm/min; ASTM D638
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
Flexural Yield Strength	98.0 MPa	14200 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	2.67 GPa	387 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	6.48 J/cm	12.1 ft-lb/in	ASTM D256
	1.65 J/cm @Temperature -30.0 °C	3.09 ft-lb/in @Temperature -22.0 °F	ASTM D256
Izod Impact, Unnotched	21.3 J/cm	39.9 ft-lb/in	ASTM D4812
Dart Drop, Total Energy	69.0 J @Temperature 23.0 °C	50.9 ft-lb @Temperature 73.4 °F	ASTM D3763

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	60.0 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$	33.3 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$	ASTM E 831
	@Temperature -40.0 - 40.0 $^\circ\text{C}$	@Temperature -40.0 - 104 $^\circ\text{F}$	
CTE, linear, Transverse to Flow	63.0 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$	35.0 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$	ASTM E 831
	@Temperature -40.0 - 40.0 $^\circ\text{C}$	@Temperature -40.0 - 104 $^\circ\text{F}$	
Deflection Temperature at 0.46 MPa (66 psi)	136 $^\circ\text{C}$	277 $^\circ\text{F}$	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	
Deflection Temperature at 1.8 MPa (264 psi)	124 $^\circ\text{C}$	255 $^\circ\text{F}$	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	
Vicat Softening Point	142 $^\circ\text{C}$	288 $^\circ\text{F}$	Rate B/50; ASTM D1525

## Contact Songhan Plastic Technology Co.,Ltd.

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