

SABIC Innovative Plastics Lexan® LUX2619 PC (Europe-Africa-Middle East)

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

Lexan® LUX2619 Polycarbonate resin is an extrusion grade. It is UL94 V-2 rated at 1.5 mm. It was designed for high light reflectance.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-Lexan-LUX2619-PC-Europe-Africa-Middle-East.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.34 g/cc	1.34 g/cc	ASTM D792
Density	1.34 g/cc	0.0484 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	0.0080 - 0.010 cm/cm @Thickness 3.20 mm	0.0080 - 0.010 in/in @Thickness 0.126 in	SABIC Method
Melt Flow	7.5 g/10 min @Load 1.20 kg, Temperature 300 °C	7.5 g/10 min @Load 2.65 lb, Temperature 572 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	50.0 MPa	7250 psi	Type I, 50 mm/min; ASTM D638
	50.0 MPa	7250 psi	50 mm/min; ISO 527
Tensile Strength, Yield	57.0 MPa	8270 psi	Type I, 50 mm/min; ASTM D638
	60.0 MPa	8700 psi	50 mm/min; ISO 527
Elongation at Break	74 %	74 %	Type I, 50 mm/min; ASTM D638
	75 %	75 %	50 mm/min; ISO 527
Elongation at Yield	6.0 %	6.0 %	Type I, 50 mm/min; ASTM D638
	6.0 %	6.0 %	50 mm/min; ISO 527
Tensile Modulus	2.50 GPa	363 ksi	1 mm/min; ISO 527
Flexural Yield Strength	90.0 MPa	13100 psi	2 mm/min; ISO 178
	97.0 MPa	14100 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	2.50 GPa	363 ksi	2 mm/min; ISO 178

Mechanical Properties	Metric	English	Comments
Izod Impact, Notched	6.40 J/cm	12.0 ft-lb/in	ASTM D256
	1.35 J/cm @Temperature -30.0 °C	2.53 ft-lb/in @Temperature -22.0 °F	ASTM D256
Izod Impact, Unnotched	21.3 J/cm	39.9 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	64.0 kJ/m ²	30.5 ft-lb/in ²	80*10*3; ISO 180/1A
	42.0 kJ/m ² @Temperature -30.0 °C	20.0 ft-lb/in ² @Temperature -22.0 °F	80*10*3; ISO 180/1A
Izod Impact, Unnotched (ISO)	180 kJ/m ²	85.7 ft-lb/in ²	80*10*3; ISO 180/1U
	175 kJ/m ² @Temperature -30.0 °C	83.3 ft-lb/in ² @Temperature -22.0 °F	80*10*3; ISO 180/1U
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 @Temperature -30.0 °C	66.6 ft-lb/in ² @Temperature -22.0 °F	Edgew 80*10*3 sp=62mm; ISO 179/1eU
Charpy Impact, Notched	6.00 J/cm ²	28.6 ft-lb/in ²	Edgew 80*10*3 sp=62mm; ISO 179/1eA
	1.00 J/cm ² @Temperature -30.0 °C	4.76 ft-lb/in ² @Temperature -22.0 °F	Edgew 80*10*3 sp=62mm; ISO 179/1eA
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	61.0 µm/m-°C @Temperature -40.0 - 40.0 °C	33.9 µin/in-°F @Temperature -40.0 - 104 °F	ASTM E 831
CTE, linear, Transverse to Flow	64.0 µm/m-°C @Temperature -40.0 - 40.0 °C	35.6 µin/in-°F @Temperature -40.0 - 104 °F	ASTM E 831
Deflection Temperature at 0.46 MPa (66 psi)	141 °C @Thickness 3.20 mm	286 °F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	141 °C	286 °F	Annealed 120°C, 2hrs; ISO 75/Ae

Thermal Properties	129 °C Metric	264 °F English	Comments UL 94; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	
Vicat Softening Point	147 °C	297 °F	Rate B/50; ASTM D1525
	147 °C	297 °F	Rate B/50; ISO 306
	148 °C	298 °F	Rate B/120; ISO 306
Flammability, UL94	V-2 @Thickness 1.50 mm	V-2 @Thickness 0.0591 in	UL 94
Glow Wire Test	850 °C	1560 °F	IEC 60695-2-13
	875 °C	1610 °F	IEC 60695-2-13
	960 °C @Thickness 1.00 - 3.00 mm	1760 °F @Thickness 0.0394 - 0.118 in	IEC 60695-2-12

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