

SABIC Innovative Plastics Lexan® OQ4320R PC

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

Optical grade with UV cut-off up to 400 nm; greater optical purity than standard grades. For sunglass and sunvisor markets. Internal mold release.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-Lexan-OQ4320R-PC.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.20 g/cc	1.20 g/cc	ASTM D792
Water Absorption	0.15 %	0.15 %	ASTM D570
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Flow	0.0050 - 0.0070 cm/cm	0.0050 - 0.0070 in/in	SABIC Method
	@Thickness 3.20 mm	@Thickness 0.126 in	
Melt Flow	12.5 g/10 min	12.5 g/10 min	ASTM D1238
	@Load 1.20 kg, Temperature 300 °C	@Load 2.65 lb, Temperature 572 °F	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	62.0 MPa	8990 psi	Type I, 50 mm/min; ASTM D638
Elongation at Break	130 %	130 %	Type I, 50 mm/min; ASTM D638
Elongation at Yield	7.0 %	7.0 %	Type I, 50 mm/min; ASTM D638
Flexural Yield Strength	96.0 MPa	13900 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	2.34 GPa	339 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	7.47 J/cm	14.0 ft-lb/in	ASTM D256
Dart Drop, Total Energy	63.0 J	46.5 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763
	169 J	125 ft-lb	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	137 °C	279 °F	unannealed; ASTM D648
	@Thickness 6.40 mm	@Thickness 0.252 in	
	132 °C	270 °F	

Deflection Temperature at 1.8 MPa (104 psi) Thermal Properties	Metric @ Thickness 6.40 mm	English @ Thickness 0.252 in	Unannealed; ASTM D648 Comments
Vicat Softening Point	154 °C	309 °F	Rate B/50; ASTM D1525

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