

SABIC Innovative Plastics Lexan® OQ2320 PC

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

Ophthalmic/safety lens market. OQ2xxx series in all transparent tints. Dedicated equipment, stringent quality production control. This data was supplied by SABIC-IP for the Americas region.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-Lexan-OQ2320-PC.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.20 g/cc	1.20 g/cc	ASTM D 792
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	12.5 g/10 min @Load 1.20 kg, Temperature 300 °C	12.5 g/10 min @Load 2.65 lb, Temperature 572 °F	ASTM D 1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	68.0 MPa	9860 psi	Type I, 50 mm/min; ASTM D 638
Tensile Strength, Yield	62.0 MPa	8990 psi	Type I, 50 mm/min; ASTM D 638
Elongation at Break	130 %	130 %	Type I, 50 mm/min; ASTM D 638
Flexural Yield Strength	96.0 MPa	13900 psi	1.3 mm/min, 50 mm span; ASTM D 790
Flexural Modulus	2.34 GPa	339 ksi	1.3 mm/min, 50 mm span; ASTM D 790
Izod Impact, Notched	7.47 J/cm @Temperature 23.0 °C	14.0 ft-lb/in @Temperature 73.4 °F	ASTM D 256
Tensile Impact Strength	525 kJ/m ²	250 ft-lb/in ²	Type S; ASTM D 1822
Impact Test	63.0 J @Temperature 23.0 °C	46.5 ft-lb @Temperature 73.4 °F	Instrumented Impact Energy @ peak; ASTM D 3763

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	132 °C @Thickness 6.40 mm	270 °F @Thickness 0.252 in	unannealed; ASTM D 648

Optical Properties	Metric	English	Comments
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Optical Properties	Metric	English	Comments
Haze	0.60 % @Thickness 2.54 mm	0.60 % @Thickness 0.100 in	ASTM D 1003
Yellow Index	0.00 %	0.00 %	ASTM D 1925
Transmission, Visible	89 % @Thickness 2.54 mm	89 % @Thickness 0.100 in	ASTM D 1003

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