

## SABIC Innovative Plastics Lexan® OQ2720 PC

Category : Polymer , Thermoplastic , Polycarbonate (PC)

### Material Notes:

Ophthalmic/safety lens market. OQ2xxx series in all transparent tints. Dedicated equipment, stringent production control conditions.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_SABIC-Innovative-Plastics-Lexan-OQ2720-PC.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-Lexan-OQ2720-PC.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.20 g/cc	1.20 g/cc	ASTM D792
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	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	68.0 MPa	9860 psi	Type I, 50 mm/min; ASTM D638
Tensile Strength, Yield	62.0 MPa	8990 psi	Type I, 50 mm/min; ASTM D638
Elongation at Break	135 %	135 %	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	9.07 J/cm	17.0 ft-lb/in	ASTM D256
Tensile Impact Strength	640 kJ/m <sup>2</sup>	305 ft-lb/in <sup>2</sup>	Type S; ASTM D1822
Dart Drop, Total Energy	65.0 J	47.9 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763

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 D648

Optical Properties	Metric	English	Comments
Refractive Index	1.586	1.586	ASTM D542
	0.60 %	0.60 %	

<b>Haze</b> Optical Properties	<b>Metric</b> @ Thickness 2.54 mm	<b>English</b> @ Thickness 0.100 in	<b>ASTM D1003</b> Comments
Yellow Index	0.00 %	0.00 %	ASTM D1925
Transmission, Visible	89 %	89 %	2.54 mm; ASTM D1003

## Contact Songhan Plastic Technology Co.,Ltd.

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