

## SABIC Innovative Plastics Lexan® OQ2220 PC

Category : Polymer , Thermoplastic , Polycarbonate (PC)

### Material Notes:

Ophthalmic/safety lens market. OQ2xxx series in all transparent tints. Dedicated equipment, stringent production control conditions. 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-OQ2220-PC.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-Lexan-OQ2220-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	17.5 g/10 min @Load 1.20 kg, Temperature 300 °C	17.5 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	125 %	125 %	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	6.94 J/cm @Temperature 23.0 °C	13.0 ft-lb/in @Temperature 73.4 °F	ASTM D 256
Izod Impact, Notched (ISO)	12.0 kJ/m <sup>2</sup> @Temperature -30.0 °C	5.71 ft-lb/in <sup>2</sup> @Temperature -22.0 °F	80*10*3; ISO 180/1A
	70.0 kJ/m <sup>2</sup> @Temperature 23.0 °C	33.3 ft-lb/in <sup>2</sup> @Temperature 73.4 °F	80*10*3; ISO 180/1A
Izod Impact, Unnotched (ISO)	NB @Temperature 23.0 °C	NB @Temperature 73.4 °F	80*10*3; ISO 180/1U
	NB @Temperature -30.0 °C	NB @Temperature -22.0 °F	80*10*3; ISO 180/1U

Mechanical Properties	Metric	English	Comments
Charpy Impact Unnotched	@Temperature 23.0 °C	@Temperature 73.4 °F	179/1eU Edgew 80*10*3 sp=62mm, ISO 179/1eU
	NB	NB	Edgew 80*10*3 sp=62mm; ISO 179/1eU
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Charpy Impact, Notched	1.40 J/cm <sup>2</sup>	6.66 ft-lb/in <sup>2</sup>	V-notch Edgew 80*10*3 sp=62mm; ISO 179/1eA
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	7.30 J/cm <sup>2</sup>	34.7 ft-lb/in <sup>2</sup>	V-notch Edgew 80*10*3 sp=62mm; ISO 179/1eA
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Tensile Impact Strength	472 kJ/m <sup>2</sup>	225 ft-lb/in <sup>2</sup>	Type S; ASTM D 1822
Impact Test	62.0 J	45.7 ft-lb	Instrumented Impact Energy @ peak; ASTM D 3763
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	129 °C	264 °F	unannealed; ASTM D 648
	@Thickness 6.40 mm	@Thickness 0.252 in	

Optical Properties	Metric	English	Comments
Refractive Index	1.586	1.586	ASTM D 542
Haze	0.60 %	0.60 %	ASTM D 1003
	@Thickness 2.54 mm	@Thickness 0.100 in	
Yellow Index	0.00 %	0.00 %	ASTM D 1925
Transmission, Visible	89 %	89 %	ASTM D 1003
	@Thickness 2.54 mm	@Thickness 0.100 in	

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