

Oxford Polymers PC 20 Unfilled Polycarbonate for Injection Molding

Category : Polymer , Thermoplastic , Polycarbonate (PC) , Polycarbonate, Molded

Material Notes:

Unfilled Polycarbonate for Injection Molding Information provided by Oxford Polymers.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Oxford-Polymers-PC-20-Unfilled-Polycarbonate-for-Injection-Molding.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.20 g/cc	1.20 g/cc	ASTM D792
Water Absorption	0.015 %	0.015 %	ASTM D570
Linear Mold Shrinkage	0.0060 cm/cm	0.0060 in/in	ASTM D955
Melt Flow	20 g/10 min	20 g/10 min	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	68.9 MPa	10000 psi	ASTM D638
Tensile Strength, Yield	62.1 MPa	9000 psi	ASTM D638
Elongation at Break	125 %	125 %	ASTM D638
Elongation at Yield	7.0 %	7.0 %	ASTM D638
Tensile Modulus	2.38 GPa	345 ksi	ASTM D638
Flexural Strength	27.6 MPa	4000 psi	ASTM D790
Flexural Modulus	2.34 GPa	340 ksi	ASTM D790
Compressive Strength	86.2 MPa	12500 psi	ASTM D695
Izod Impact, Notched	6.94 J/cm @Temperature 23.0 °C	13.0 ft-lb/in @Temperature 73.4 °F	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	138 °C	280 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	129 °C	265 °F	ASTM D648
Flammability, UL94	V-2	V-2	

Processing Properties	Metric	English	Comments
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Processing Temperature Processing Properties	271 °C Metric	520 °F English	Comments
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Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China