

Diamond Polymers PC 2418 R UV UV Stabilized/Mold Release Polycarbonate

Category : Polymer , Thermoplastic , Polycarbonate (PC) , Polycarbonate, UV Stabilized

Material Notes:

Information Provided by Diamond Polymers, Inc. & Network Polymers, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Diamond-Polymers-PC-2418-R-UV-UV-StabilizedMold-Release-Polycarbonate.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.20 g/cc	1.20 g/cc	ASTM D792
Linear Mold Shrinkage	0.0050 - 0.0070 cm/cm	0.0050 - 0.0070 in/in	ASTM D955
Melt Flow	28 g/10 min @Load 1.20 kg, Temperature 300 °C	28 g/10 min @Load 2.65 lb, Temperature 572 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	118	118	ASTM D785
Tensile Strength at Break	69.0 MPa	10000 psi	chs 2.0 in/min; ASTM D638
Tensile Strength, Yield	62.0 MPa	8990 psi	chs 2.0 in/min; ASTM D638
Elongation at Break	132 %	132 %	chs 2.0 in/min; ASTM D638
Flexural Strength	98.5 MPa	14300 psi	chs 0.05 in/min; ASTM D790
Flexural Modulus	2.274 GPa	329.8 ksi	chs 0.05 in/min; tangent; ASTM D790
Izod Impact, Notched	5.40 J/cm @Thickness 3.17 mm	10.1 ft-lb/in @Thickness 0.125 in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	67.5 µm/m-°C @Temperature -40.0 - 93.3 °C	37.5 µin/in-°F @Temperature -40.0 - 200 °F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	132 °C	270 °F	0.125";, ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	131 °C	268 °F	0.125";, ASTM D648

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