

Oxford Polymers PC 714-FR Series PC, Flame retardant

Category : Polymer , Thermoplastic , Polycarbonate (PC) , Polycarbonate, Unreinforced, Flame Retardant

Material Notes:

Product Description: Amorphous, Polycarbonate injection molding grade, flame retardant Processing and Delivery Form: Pellets and Injection MoldingAdditives: Release Agents and UV stabilizersSpecial Characteristics: All colors Available and UL listed – VO @ 3mm File # E186411 conductiveInformation provided by Oxford Polymers

Order this product through the following link:

http://www.lookpolymers.com/polymer_Oxford-Polymers-PC-714-FR-Series-PC-Flame-retardant.php

Physical Properties	Metric	English	Comments
Density	1.20 g/cc	0.0434 lb/in ³	ASTM D792
Water Absorption at Saturation	0.150 %	0.150 %	ASTM D570
Linear Mold Shrinkage, Flow	0.00500 - 0.00700 cm/cm @Thickness 3.17 mm	0.00500 - 0.00700 in/in @Thickness 0.125 in	ASTM D955
Melt Flow	9.00 - 14.0 g/10 min @Load 1.10 kg, Temperature 300 °C	9.00 - 14.0 g/10 min @Load 2.43 lb, Temperature 572 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	58.6 MPa	8500 psi	ASTM D638
Elongation at Break	5.00 %	5.00 %	ASTM D638
Flexural Strength	89.6 MPa	13000 psi	ASTM D790
Flexural Modulus	2.59 GPa	375 ksi	ASTM D790
Izod Impact, Notched	8.54 J/cm @Thickness 3.17 mm	16.0 ft-lb/in @Thickness 0.125 in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	132 °C	270 °F	Unannealed; ASTM D648

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	266 - 277 °C	510 - 530 °F	
Middle Barrel Temperature	271 - 282 °C	520 - 540 °F	
Front Barrel Temperature	282 - 299 °C	540 - 570 °F	

Processing Properties	Metric	English	Comments
Nozzle Temperature	277 - 304 °C	530 - 580 °F	
Melt Temperature	288 - 316 °C	550 - 600 °F	
Mold Temperature	71.1 - 93.3 °C	160 - 200 °F	
Drying Temperature	<= 121 °C	<= 250 °F	
Dry Time	3.00 - 4.00 hour	3.00 - 4.00 hour	

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