

PolyOne Stat-Tech™ PC-CB2/000 CR Polycarbonate (PC)

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

Stat-Tech™ PC-CB2/000 CR XP100827 Information provided by PolyOne

Order this product through the following link:

http://www.lookpolymers.com/polymer_PolyOne-Stat-Tech-PC-CB2000-CR-Polycarbonate-PC.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.19 - 1.23 g/cc	1.19 - 1.23 g/cc	ASTM D792
Linear Mold Shrinkage, Flow	0.0050 - 0.0070 cm/cm	0.0050 - 0.0070 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	55.2 - 72.4 MPa	8010 - 10500 psi	Type I, 5.1 mm/min; ASTM D638
Elongation at Break	3.0 - 7.0 %	3.0 - 7.0 %	Type I, 5.1 mm/min; ASTM D638
Tensile Modulus	2.07 - 3.45 GPa	300 - 500 ksi	Type I, 5.1 mm/min; ASTM D638
Flexural Strength	89.6 - 103 MPa	13000 - 14900 psi	ASTM D790
Flexural Modulus	1.72 - 3.10 GPa	249 - 450 ksi	ASTM D790
Izod Impact, Notched	0.370 - 0.530 J/cm @Thickness 6.35 mm, Temperature 23.0 °C	0.693 - 0.993 ft-lb/in @Thickness 0.250 in, Temperature 73.4 °F	Injection Molded; ASTM D256A

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	123 °C @Thickness 3.18 mm	253 °F @Thickness 0.125 in	Unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	112 °C	234 °F	Unannealed; ASTM D648

Electrical Properties	Metric	English	Comments
Volume Resistivity	100 - 10000 ohm-cm	100 - 10000 ohm-cm	ASTM D257
Surface Resistance	1000 ohm - 1e+05	1000 ohm - 1e+05	ASTM D257

Processing Properties	Metric	English	Comments
Melt Temperature	300 - 320 °C	572 - 608 °F	
Mold Temperature	90.0 - 110 °C	194 - 230 °F	

Processing Properties	Metric ^{30 °C}	English ^{86 °F}	Comments
Dry Time	3.00 - 4.00 hour	3.00 - 4.00 hour	

Descriptive Properties	Value	Comments
Features	Clean/High Purity	
	Electrically Conductive	
Filler / Reinforcement	Carbon Nano Filler	
Forms	Pellets	
Generic Material	PC	
Generic Name	Polycarbonate (PC)	
Processing Method	Injection Molding	
Regional Availability	Asia Pacific	
Uses	Aerospace Applications	
	Automotive Electronics	
	Business Equipment	
	Computer Components	
	Connectors	
	Electrical Housing	
	Electrical/Electronic Applications	
	Housings	

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