

Clariant Renol PCSP0008BK Polycarbonate, ESD Protection

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

Data provided by Clariant Masterbatches

Order this product through the following link:

http://www.lookpolymers.com/polymer_Clariant-Renol-PCSP0008BK-Polycarbonate-ESD-Protection.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.24 g/cc	1.24 g/cc	ASTM D792
Linear Mold Shrinkage, Flow	0.0060 - 0.0080 cm/cm	0.0060 - 0.0080 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	55.2 MPa	8000 psi	ASTM D638
Elongation at Break	>= 10 %	>= 10 %	ASTM D638
Flexural Yield Strength	89.6 MPa	13000 psi	ASTM D790
Flexural Modulus	2.59 GPa	375 ksi	ASTM D790
Izod Impact, Notched	1.60 J/cm @Temperature 22.8 °C	3.00 ft-lb/in @Temperature 73.0 °F	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	132 °C	270 °F	ASTM D648

Electrical Properties	Metric	English	Comments
Volume Resistivity	1000 - 1.00e+6 ohm-cm	1000 - 1.00e+6 ohm-cm	ASTM D150

Processing Properties	Metric	English	Comments
Melt Temperature	274 - 316 °C	525 - 600 °F	
Mold Temperature	82.2 - 121 °C	180 - 250 °F	
Dry Time	2 - 4 hour @Temperature 121 °C	2 - 4 hour @Temperature 250 °F	to ensure the moisture level is less than 0.02%
Injection Pressure	41.4 - 82.7 MPa	6000 - 12000 psi	Secondary
	68.9 - 138 MPa	10000 - 20000 psi	Initial

Processing Properties	Metric 1.72 MPa	English 50 psi	Comments
Shot Size	30 - 80 %	30 - 80 %	
Screw Speed	20 - 100 rpm	20 - 100 rpm	

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