

Clariant Renol PPOSP0001 Polyphenylene Oxide, Mineral Filled

Category : Polymer , Thermoplastic , Polyphenylene Ether/PPO , Polyphenylene Ether, Mineral Filled

Material Notes:

Data provided by Clariant Masterbatches

Order this product through the following link:

http://www.lookpolymers.com/polymer_Clariant-Renol-PPOSP0001-Polyphenylene-Oxide-Mineral-Filled.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.62 g/cc	1.62 g/cc	ASTM D792
Filler Content	50 %	50 %	ASTM D2584
Linear Mold Shrinkage, Flow	0.0010 - 0.0030 cm/cm	0.0010 - 0.0030 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	50.3 MPa	7300 psi	ASTM D638
Elongation at Break	2.0 - 3.0 %	2.0 - 3.0 %	ASTM D638
Flexural Yield Strength	110 MPa	16000 psi	ASTM D790
Flexural Modulus	11.7 GPa	1700 ksi	ASTM D790
Izod Impact, Notched	0.160 J/cm @Temperature 22.8 °C	0.300 ft-lb/in @Temperature 73.0 °F	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	107 °C	225 °F	ASTM D648
Flammability, UL94	V-0 @Thickness 3.17 mm	V-0 @Thickness 0.125 in	

Processing Properties	Metric	English	Comments
Melt Temperature	260 - 288 °C	500 - 550 °F	
Mold Temperature	71.1 - 93.3 °C	160 - 200 °F	
Dry Time	3 - 4 hour @Temperature 93.3 °C	3 - 4 hour @Temperature 200 °F	
Injection Pressure	41.4 - 74.5 MPa	6000 - 10800 psi	Secondary
	68.9 - 124 MPa	10000 - 18000 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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