

Clariant Renol PPA1100G50 Polyphthalamide, 50% Glass Fiber

Category : Polymer , Thermoplastic , Polyphthalamide (PPA) , Polyphthalamide (PPA), 50% Glass Fiber Reinforced

Material Notes:

Data provided by Clariant Masterbatches

Order this product through the following link:

http://www.lookpolymers.com/polymer_Clariant-Renol-PPA1100G50-Polyphthalamide-50-Glass-Fiber.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.64 g/cc	1.64 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	24.8 MPa	3600 psi	ASTM D638
Elongation at Break	2.0 - 3.0 %	2.0 - 3.0 %	ASTM D638
Flexural Yield Strength	365 MPa	53000 psi	ASTM D790
Flexural Modulus	17.2 GPa	2500 ksi	ASTM D790
Izod Impact, Notched	1.17 J/cm @Temperature 22.8 °C	2.20 ft-lb/in @Temperature 73.0 °F	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	282 °C	540 °F	ASTM D648

Processing Properties	Metric	English	Comments
Melt Temperature	302 - 329 °C	575 - 625 °F	
Mold Temperature	135 - 163 °C	275 - 325 °F	
Dry Time	6 hour @Temperature 79.4 °C	6 hour @Temperature 175 °F	to ensure moisture level is less than 0.5%
Injection Pressure	41.4 - 74.5 MPa	6000 - 10800 psi	Secondary
	68.9 - 124 MPa	10000 - 18000 psi	Initial
Back Pressure	0.345 - 1.72 MPa	50.0 - 250 psi	
Shot Size	30 - 80 %	30 - 80 %	

Processing Properties	Metric	English	Comments
Screw Speed	20 - 100 rpm	20 - 100 rpm	

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