

Clariant Renol PP1100G40 Polypropylene Homopolymer, 40% Glass Fiber, Chemically Coupled

Category : Polymer , Thermoplastic , Polypropylene (PP) , Polypropylene with 40% Glass Fiber Filler

Material Notes:

Data provided by Clariant Masterbatches

Order this product through the following link:

http://www.lookpolymers.com/polymer_Clariant-Renol-PP1100G40-Polypropylene-Homopolymer-40-Glass-Fiber-Chemically-Coupled.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.23 g/cc	1.23 g/cc	ASTM D792
Linear Mold Shrinkage, Flow	0.0030 - 0.0040 cm/cm	0.0030 - 0.0040 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	86.9 MPa	12600 psi	ASTM D638
Flexural Yield Strength	128 MPa	18500 psi	ASTM D790
Flexural Modulus	5.86 GPa	850 ksi	ASTM D790
Izod Impact, Notched	0.801 J/cm	1.50 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	162 °C	324 °F	ASTM D648

Processing Properties	Metric	English	Comments
Melt Temperature	191 - 221 °C	375 - 430 °F	
Mold Temperature	37.8 - 65.6 °C	100 - 150 °F	
Injection Pressure	4.96 - 8.27 MPa	720 - 1200 psi	Secondary
	8.27 - 13.8 MPa	1200 - 2000 psi	Initial
Back Pressure	0.000 - 0.345 MPa	0.000 - 50.0 psi	
Shot Size	30 - 80 %	30 - 80 %	
Screw Speed	20 - 100 rpm	20 - 100 rpm	

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