

Clariant Renol 6004G23 Nylon 6, 23% Glass Fiber Reinforced

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6, 20% Glass Fiber Filled

Material Notes:

Data provided by Clariant Masterbatches

Order this product through the following link:

http://www.lookpolymers.com/polymer_Clariant-Renol-6004G23-Nylon-6-23-Glass-Fiber-Reinforced.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.26 g/cc	1.26 g/cc	ASTM D792
Filler Content	23 %	23 %	ASTM D2584
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	121 MPa	17500 psi	ASTM D638
Elongation at Yield	3.0 %	3.0 %	ASTM D638
Flexural Yield Strength	165 MPa	24000 psi	ASTM D790
Flexural Modulus	5.58 GPa	810 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)	199 °C	390 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	210 °C	410 °F	ASTM D648

Processing Properties	Metric	English	Comments
Melt Temperature	238 - 260 °C	460 - 500 °F	
Mold Temperature	79.4 - 107 °C	175 - 225 °F	
Dry Time	2 - 4 hour @Temperature 79.4 °C	2 - 4 hour @Temperature 175 °F	to ensure moisture content is less than 0.2%
Injection Pressure	4.96 - 8.27 MPa	720 - 1200 psi	Secondary
	8.27 - 13.8 MPa	1200 - 2000 psi	Initial

Back Pressure Processing Properties	0.345 - 1.38 MPa Metric	50.0 - 200 psi English	Comments
Shot Size	30 - 80 %	30 - 80 %	
Screw Speed	20 - 100 rpm	20 - 100 rpm	

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