

Clariant Renol 612G10-L Nylon 612, 10% Glass Fiber Reinforced, Lubricated

Category : Polymer , Thermoplastic , Nylon , Nylon 612 , Nylon 612, Glass Fiber Filler

Material Notes:

Data provided by Clariant Masterbatches

Order this product through the following link:

http://www.lookpolymers.com/polymer_Clariant-Renol-612G10-L-Nylon-612-10-Glass-Fiber-Reinforced-Lubricated.php

Physical Properties	Metric	English	Comments
Filler Content	10 %	10 %	ASTM D2584
Linear Mold Shrinkage	0.0040 - 0.0060 cm/cm	0.0040 - 0.0060 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	75.8 MPa	11000 psi	ASTM D638
Elongation at Yield	4.0 %	4.0 %	ASTM D638
Flexural Yield Strength	110 MPa	16000 psi	ASTM D790
Flexural Modulus	3.45 GPa	500 ksi	ASTM D790
Izod Impact, Notched	0.427 J/cm @Temperature 22.8 °C	0.800 ft-lb/in @Temperature 73.0 °F	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	196 °C	385 °F	ASTM D648

Processing Properties	Metric	English	Comments
Melt Temperature	243 - 271 °C	470 - 520 °F	
Mold Temperature	79.4 - 93.3 °C	175 - 200 °F	
Dry Time	2 - 4 hour @Temperature 79.4 °C	2 - 4 hour @Temperature 175 °F	to ensure moisture content of 0.2% or less
Injection Pressure	4.96 - 8.27 MPa	720 - 1200 psi	Secondary
	8.27 - 13.8 MPa	1200 - 2000 psi	Initial
Back Pressure	0.172 - 0.517 MPa	25.0 - 75.0 psi	
Shot Size	30 - 80 %	30 - 80 %	
Screw Speed	20 - 100 rpm	20 - 100 rpm	

Processing Properties

Metric

English

Comments

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