

Clariant Renol PA611D40 Nylon 612, Glass Fiber Reinforced, Molybdenum Disulfide Lubricated

Category : Polymer , Thermoplastic , Nylon , Nylon 612 , Nylon 612 with Molybdenum Sulfide Filler

Material Notes:

Data provided by Clariant Masterbatches

Order this product through the following link:

http://www.lookpolymers.com/polymer_Clariant-Renol-PA611D40-Nylon-612-Glass-Fiber-Reinforced-Molybdenum-Disulfide-Lubricated.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.41 g/cc	1.41 g/cc	ASTM D792

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	145 MPa	21000 psi	ASTM D638
Elongation at Break	4.0 %	4.0 %	ASTM D638
Flexural Yield Strength	221 MPa	32000 psi	ASTM D790
Flexural Modulus	8.27 GPa	1200 ksi	ASTM D790
Izod Impact, Notched	1.07 J/cm @Temperature 22.8 °C	2.00 ft-lb/in @Temperature 73.0 °F	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	225 °C	437 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	210 °C	410 °F	ASTM D648

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	260 - 288 °C	500 - 550 °F	
Middle Barrel Temperature	260 - 288 °C	500 - 550 °F	
Front Barrel Temperature	266 - 293 °C	510 - 560 °F	
Nozzle Temperature	266 - 293 °C	510 - 560 °F	
Melt Temperature	266 - 288 °C	510 - 550 °F	
Mold Temperature	54.4 - 82.2 °C	130 - 180 °F	
Dry Time	2 - 4 hour	2 - 4 hour	to ensure moisture content is less than 0.2%

Processing Properties	Metric	English	Comments
	8.27 MPa	1200 psi	
	8.27 - 13.8 MPa	1200 - 2000 psi	Initial
Back Pressure	0.345 - 0.689 MPa	50.0 - 100 psi	

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