

Clariant Renol PA111G20CF10BK Nylon 66, 20% Glass and 10% Carbon Filled

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, Glass/Carbon Fiber Filled

Material Notes:

Data provided by Clariant Masterbatches

Order this product through the following link:

http://www.lookpolymers.com/polymer_Clariant-Renol-PA111G20CF10BK-Nylon-66-20-Glass-and-10-Carbon-Filled.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.34 g/cc	1.34 g/cc	ASTM D792
Linear Mold Shrinkage	0.0030 - 0.0050 cm/cm	0.0030 - 0.0050 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	165 MPa	24000 psi	ASTM D638
Elongation at Yield	3.0 %	3.0 %	ASTM D638
Flexural Yield Strength	262 MPa	38000 psi	ASTM D790
Flexural Modulus	8.96 GPa	1300 ksi	ASTM D790
Izod Impact, Notched	0.641 J/cm @Temperature 22.8 °C	1.20 ft-lb/in @Temperature 73.0 °F	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	249 °C	480 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	257 °C	495 °F	ASTM D648

Processing Properties	Metric	English	Comments
Melt Temperature	271 - 299 °C	520 - 570 °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	0.345 - 1.72 MPa	50.0 - 250 psi	

Shot Size Processing Properties	30 - 80 % Metric	30 - 80 % English	Comments
Screw Speed	20 - 100 rpm	20 - 100 rpm	

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