

Clariant PA131G2GN-91 Green Nylon 66, Highly Toughened

Category : Polymer , Thermoplastic , Nylon , Nylon 66

Material Notes:

Data provided by Clariant Masterbatches

Order this product through the following link:

http://www.lookpolymers.com/polymer_Clariant-PA131G2GN-91-Green-Nylon-66-Highly-Toughened.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.08 g/cc	1.08 g/cc	ASTM D792
Linear Mold Shrinkage, Flow	0.020 cm/cm	0.020 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	44.8 MPa	6500 psi	ASTM D638
Flexural Yield Strength	66.2 MPa	9600 psi	ASTM D790
Flexural Modulus	1.72 GPa	250 ksi	ASTM D790
Izod Impact, Notched	7.74 J/cm @Temperature 22.8 °C	14.5 ft-lb/in @Temperature 73.0 °F	ASTM D256

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 @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 - 0.689 MPa	50.0 - 100 psi	
Shot Size	30 - 80 %	30 - 80 %	

Screw Speed Processing Properties	50 - 100 rpm Metric	50 - 100 rpm English	Comments
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