

Clariant Renol PA11BK FDA Nylon 66, General Purpose, FDA, Black

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-Renol-PA11BK-FDA-Nylon-66-General-Purpose-FDA-Black.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.14 g/cc	1.14 g/cc	ASTM D792
Linear Mold Shrinkage, Flow	0.017 cm/cm	0.017 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	82.7 MPa	12000 psi	ASTM D638
Elongation at Break	60 %	60 %	ASTM D638
Flexural Yield Strength	138 MPa	20000 psi	ASTM D790
Flexural Modulus	2.83 GPa	410 ksi	ASTM D790
Izod Impact, Notched	0.534 J/cm @Temperature 22.8 °C	1.00 ft-lb/in @Temperature 73.0 °F	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	235 °C	455 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	77.0 °C	171 °F	ASTM D648

Processing Properties	Metric	English	Comments
Melt Temperature	271 - 293 °C	520 - 560 °F	
Mold Temperature	65.6 - 79.4 °C	150 - 175 °F	
Dry Time	2 - 4 hour @Temperature 71.1 °C	2 - 4 hour @Temperature 160 °F	to eliminate surface defects
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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