

Clariant Renol 6001 HV HSL Nylon 6, Heat Stabilized, Lubricated

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6, Heat Stabilized

Material Notes:

Data provided by Clariant Masterbatches

Order this product through the following link:

http://www.lookpolymers.com/polymer_Clariant-Renol-6001-HV-HSL-Nylon-6-Heat-Stabilized-Lubricated.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.14 g/cc	1.14 g/cc	ASTM D790
Relative Viscosity	80 cP	80 cP	ASTM D789
Linear Mold Shrinkage, Flow	0.018 cm/cm	0.018 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	68.9 MPa	10000 psi	ASTM D638
Elongation at Yield	4.0 %	4.0 %	ASTM D638
Flexural Modulus	2.41 GPa	350 ksi	ASTM D790
Izod Impact, Notched	0.481 J/cm @Temperature 22.8 °C	0.900 ft-lb/in @Temperature 73.0 °F	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	61.7 °C	143 °F	ASTM D648

Processing Properties	Metric	English	Comments
Melt Temperature	254 - 271 °C	490 - 520 °F	
Mold Temperature	51.7 - 79.4 °C	125 - 175 °F	
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	30 - 80 %	30 - 80 %	
Screw Speed	20 - 100 rpm	20 - 100 rpm	

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