

Ravago Manufacturing Americas Hylon® N1033HL Nylon 6/6 (Cond)

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, Heat Stabilized

Material Notes:

Information provided by Ravago.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Ravago-Manufacturing-Americas-Hylon-N1033HL-Nylon-66-Cond.php

Physical Properties	Metric	English	Comments
Density	1.38 g/cc	0.0499 lb/in ³	DAM; ASTM D792
Water Absorption	0.70 %	0.70 %	24 hrs, DAM; ASTM D570
Linear Mold Shrinkage	0.0030 - 0.0050 cm/cm	0.0030 - 0.0050 in/in	0.125 in, DAM; ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	85	85	ASTM D785
Tensile Strength at Break	138 MPa	20000 psi	ASTM D638
Elongation at Break	3.0 %	3.0 %	ASTM D638
Flexural Strength	193 MPa	28000 psi	ASTM D790
Flexural Modulus	6.21 GPa	900 ksi	ASTM D790
Izod Impact, Notched	1.33 J/cm	2.50 ft-lb/in	73°F; ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	246 °C	475 °F	Unannealed; ASTM D648
Flammability, UL94	HB	HB	0.0295 in, NC
	HB	HB	0.0591 in, BK
	HB	HB	0.0591 in, NC
	HB	HB	0.118 in, BK
	HB	HB	0.118 in, NC

Processing Properties	Metric	English	Comments
Melt Temperature	282 - 299 °C	540 - 570 °F	
Mold Temperature	65.6 - 98.9 °C	150 - 210 °F	

Drying Temperature Processing Properties	73.9 °C Metric	165 °F English	Comments
Dry Time	2 - 4 hour	2 - 4 hour	
Moisture Content	0.20 %	0.20 %	
Back Pressure	0.138 - 0.414 MPa	20.0 - 60.0 psi	
Screw Speed	40 - 120 rpm	40 - 120 rpm	

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