

Ravago Manufacturing Americas Hylon® N2033HL Nylon 6 (DAM)

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

Material Notes:

Information provided by Ravago.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Ravago-Manufacturing-Americas-Hylon-N2033HL-Nylon-6-DAM.php

Physical Properties	Metric	English	Comments
Density	1.38 g/cc	0.0499 lb/in ³	ASTM D792
Water Absorption	1.1 %	1.1 %	24 hrs; ASTM D570
Linear Mold Shrinkage	0.0030 cm/cm	0.0030 in/in	0.125 in; ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	121	121	ASTM D785
Tensile Strength, Yield	193 MPa	28000 psi	ASTM D638
Elongation at Break	3.0 %	3.0 %	ASTM D638
Flexural Strength	276 MPa	40000 psi	ASTM D790
Flexural Modulus	9.45 GPa	1370 ksi	ASTM D790
Izod Impact, Notched	1.17 J/cm	2.20 ft-lb/in	73°F; ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	37.8 µm/m-°C	21.0 µin/in-°F	ASTM D696
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Deflection Temperature at 1.8 MPa (264 psi)	210 °C	410 °F	Unannealed; ASTM D648
Flammability, UL94	HB	HB	0.0590 in

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+14 ohm-cm	1.00e+14 ohm-cm	ASTM D257
Dielectric Strength	27.6 kV/mm	700 kV/in	ASTM D149

Processing Properties	Metric	English	Comments
Melt Temperature	254 - 277 °C	490 - 530 °F	

Mold Temperature Processing Properties	71.1 - 93.3 °C Metric	160 - 200 °F English	Comments
Drying Temperature	73.9 °C	165 °F	
Dry Time	2 - 4 hour	2 - 4 hour	
Moisture Content	0.18 %	0.18 %	
Back Pressure	0.138 - 0.414 MPa	20.0 - 60.0 psi	
Screw Speed	50 - 120 rpm	50 - 120 rpm	

Descriptive Properties	Value	Comments
Holding Pressure	750 to 1400 psi	
Injection Rate	Fast	

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