

Ravago Manufacturing Americas Hylon® N2033THL 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-N2033THL-Nylon-6-DAM.php

Physical Properties	Metric	English	Comments
Density	1.35 g/cc	0.0488 lb/in ³	ASTM D792
Water Absorption	1.0 %	1.0 %	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	82	82	ASTM D785
Tensile Strength, Yield	148 MPa	21500 psi	ASTM D638
Elongation at Break	2.0 %	2.0 %	ASTM D638
Flexural Strength	193 MPa	28000 psi	ASTM D790
Flexural Modulus	7.58 GPa	1100 ksi	ASTM D790
Izod Impact, Notched	1.60 J/cm	3.00 ft-lb/in	73°F; ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	32.4 µm/m-°C @Temperature 20.0 °C	18.0 µin/in-°F @Temperature 68.0 °F	ASTM D696

Processing Properties	Metric	English	Comments
Melt Temperature	254 - 277 °C	490 - 530 °F	
Mold Temperature	71.1 - 93.3 °C	160 - 200 °F	
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	

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

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