

Ravago Manufacturing Americas Hylon® N1033STHL Nylon 6/6 (DAM)

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-N1033STHL-Nylon-66-DAM.php

Physical Properties	Metric	English	Comments
Density	1.33 g/cc	0.0480 lb/in³	ASTM D792
Water Absorption	0.40 %	0.40 %	24 hrs; ASTM D570
Linear Mold Shrinkage	0.0030 - 0.0050 cm/cm	0.0030 - 0.0050 in/in	0.125 in; ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	82	82	ASTM D785
Tensile Strength at Break	117 MPa	17000 psi	ASTM D638
Elongation at Break	3.0 %	3.0 %	ASTM D638
Flexural Strength	193 MPa	28000 psi	ASTM D790
Flexural Modulus	6.89 GPa	1000 ksi	ASTM D790
Izod Impact, Notched	1.87 J/cm	3.50 ft-lb/in	73°F; ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	27.0 µm/m-°C	15.0 µin/in-°F	ASTM D696
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Deflection Temperature at 1.8 MPa (264 psi)	249 °C	480 °F	Unannealed; ASTM D648
Flammability, UL94	HB	HB	0.0591 in, BK
	HB	HB	0.118 in, BK

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+14 ohm-cm	1.00e+14 ohm-cm	ASTM D257
Dielectric Strength	21.7 kV/mm	550 kV/in	ASTM D149

Processing Properties	Metric	English	Comments
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Melt Temperature Processing Properties	282 - 299 °C Metric	540 - 570 °F English	Comments
Mold Temperature	65.6 - 98.9 °C	150 - 210 °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	40 - 120 rpm	40 - 120 rpm	

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

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China