

Ascend Performance Materials Vydyne® 41H NT Nylon 66, Impact Modified, Conditioned

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, Impact Grade

Material Notes:

Vydyne® 41H NT is general-purpose, impact-modified PA66 resin. Available in natural, it is heat-stabilized for improved resistance to elevated temperatures. The heat stabilization package for Vydyne 41H NT was formulated to provide thermal endurance when used in applications in which continuous or extended high-temperature exposure is anticipated. Vydyne 41H NT is recognized for all the processing and property advantages inherent to PA66 with the addition of improved impact strength. This resin offers a well balanced combination of engineering properties characterized by high melt point, good surface lubricity, abrasion resistance and resistance to many chemicals, machine and motor oils, solvents and gasoline. Typical Applications/End Uses: Vydyne 41H NT is designed to meet the critical low-temperature impact requirements called out in many automotive specifications. Availability: Asia Pacific Europe North America Additive: Impact Modifier Features: Gasoline Resistance Good Abrasion Resistance Good Chemical Resistance Good Processability High Impact Resistance Impact Modified Low Temperature Impact Resistance Oil Resistant Solvent Resistant Uses: Automotive Applications Connectors Consumer Applications Electrical/Electronic Applications Fasteners Gears Industrial Applications Appearance: Natural Color Forms: Pellets Processing Method: Compounding and Compounding Extrusion Information provided by Ascend Performance Materials.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Ascend-Performance-Materials-Vydyne-41H-NT-Nylon-66-Impact-Modified-Conditioned.php

Physical Properties	Metric	English	Comments
Density	1.08 g/cc	0.0390 lb/in ³	ISO 1183
Water Absorption	1.0 % @Time 86400 sec	1.0 % @Time 24.0 hour	ISO 62
Moisture Absorption at Equilibrium	2.1 %	2.1 %	50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.018 cm/cm @Diameter 2.00 mm	0.018 in/in @Diameter 0.0787 in	ISO 294-4
Linear Mold Shrinkage, Transverse	0.016 cm/cm @Diameter 2.00 mm	0.016 in/in @Diameter 0.0787 in	ISO 294-4

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	39.0 MPa	5660 psi	ISO 527-2
Tensile Strength, Yield	35.0 MPa	5080 psi	ISO 527-2
Elongation at Yield	180 %	180 %	ISO 527-2
Tensile Modulus	1.39 GPa	202 ksi	ISO 527-2

Flexural Strength Mechanical Properties	17.0 MPa Metric	2470 psi English	ISO 178 Comments
Flexural Modulus	0.545 GPa	79.0 ksi	ISO 178
Izod Impact, Notched (ISO)	25.0 kJ/m ² @Temperature -40.0 °C	11.9 ft-lb/in ² @Temperature -40.0 °F	ISO 180
	29.0 kJ/m ² @Temperature -30.0 °C	13.8 ft-lb/in ² @Temperature -22.0 °F	ISO 180
	88.0 kJ/m ² @Temperature 23.0 °C	41.9 ft-lb/in ² @Temperature 73.4 °F	ISO 180
Charpy Impact Unnotched	NB @Temperature -30.0 °C	NB @Temperature -22.0 °F	ISO 179
	NB @Temperature 23.0 °C	NB @Temperature 73.4 °F	ISO 179
Charpy Impact, Notched	2.50 J/cm ² @Temperature -40.0 °C	11.9 ft-lb/in ² @Temperature -40.0 °F	ISO 179
	2.50 J/cm ² @Temperature -30.0 °C	11.9 ft-lb/in ² @Temperature -22.0 °F	ISO 179
	11.0 J/cm ² @Temperature 23.0 °C	52.3 ft-lb/in ² @Temperature 73.4 °F	ISO 179

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