

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

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

Material Notes:

Vydyne® 41H is a 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 was formulated to provide thermal endurance when used in applications in which continuous or extended high-temperature exposure is anticipated. Vydyne 41H 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. 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: Injection Molding Information provided by Ascend Performance Materials.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Ascend-Performance-Materials-Vydyne-41H-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 Break	>= 180 %	>= 180 %	ISO 527-2
Tensile Modulus	1.39 GPa	202 ksi	ISO 527-2
Flexural Strength	17.0 MPa	2470 psi	ISO 178
Flexural Modulus	0.545 GPa	79.0 ksi	ISO 178

Mechanical Properties	Metric /m ²	English lb/in ²	Comments
Izod Impact, Notched (ISO)			ISO 180
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	29.0 kJ/m ²	13.8 ft-lb/in ²	ISO 180
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	88.0 kJ/m ²	41.9 ft-lb/in ²	ISO 180
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact Unnotched	NB	NB	ISO 179
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	NB	NB	ISO 179
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact, Notched	2.50 J/cm ²	11.9 ft-lb/in ²	ISO 179
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	2.50 J/cm ²	11.9 ft-lb/in ²	ISO 179
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	11.0 J/cm ²	52.3 ft-lb/in ²	ISO 179
	@Temperature 23.0 °C	@Temperature 73.4 °F	

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