

Ascend Performance Materials Vydyne® 47 NT Nylon 66, Impact Modified, Conditioned

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

Material Notes:

Vydyne® 47 NT is general-purpose, impact-modified PA66 resin. Available in natural, it 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. Vydyne 47 NT is designed to meet the critical low-temperature impact requirements called out in many automotive specifications. Typical Applications/End Uses: Vydyne 47 NT may be used in both industrial and automotive applications. Typical end uses include: clips, fasteners, engine gearing, cable ties, electrical connectors and many other parts that require high-impact properties. Vydyne 47 NT resin can in many cases be used as a metal replacement, offering improvements on abrasion resistance, reduction in part weight, greater processing flexibility and lower energy consumption. Availability:Asia PacificEuropeNorth AmericaAdditive:Impact Modifier Features: Gasoline ResistanceGood Abrasion ResistanceGood Chemical ResistanceGood ProcessabilityHigh Impact ResistanceImpact ModifiedLow Temperature Impact ResistanceOil ResistantSolvent ResistantUses:Automotive ApplicationsConnectorsConsumer ApplicationsElectrical/Electronic ApplicationsFastenersGearsIndustrial ApplicationsAppearance: Natural ColorForms: PelletsProcessing Method: Injection MoldingInformation provided by Ascend Performance Materials.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Ascend-Performance-Materials-Vydyne-47-NT-Nylon-66-Impact-Modified-Conditioned.php

Physical Properties	Metric	English	Comments
Density	1.10 g/cc	0.0397 lb/in ³	ISO 1183
Water Absorption	1.2 % @Time 86400 sec	1.2 % @Time 24.0 hour	ISO 62
Moisture Absorption at Equilibrium	2.3 %	2.3 %	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	40.0 MPa	5800 psi	ISO 527-2
Tensile Strength, Yield	45.0 MPa	6530 psi	ISO 527-2
Elongation at Break	60 %	60 %	ISO 527-2
Tensile Modulus	1.74 GPa	252 ksi	ISO 527-2

Flexural Strength Mechanical Properties	24.0 MPa Metric	3480 psi English	ISO 178 Comments
Flexural Modulus	0.780 GPa	113 ksi	ISO 178
Izod Impact, Notched (ISO)	18.0 kJ/m ²	8.57 ft-lb/in ²	ISO 180
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	24.0 kJ/m ²	11.4 ft-lb/in ²	ISO 180
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	44.0 kJ/m ²	20.9 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	1.80 J/cm ²	8.57 ft-lb/in ²	ISO 179
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	2.40 J/cm ²	11.4 ft-lb/in ²	ISO 179
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	6.20 J/cm ²	29.5 ft-lb/in ²	ISO 179
	@Temperature 23.0 °C	@Temperature 73.4 °F	

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