

Ascend Performance Materials Vydyn® 41 Nylon 66, Conditioned

Category : Polymer , Thermoplastic , Nylon , Nylon 66

Material Notes:

Vydyn® 41 is a 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. Vydyn 41 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: Appliances 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

Order this product through the following link:

http://www.lookpolymers.com/polymer_Ascend-Performance-Materials-Vydyn-41-Nylon-66-Conditioned.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.08 g/cc	1.08 g/cc	ISO 1183
Water Absorption	1.0 %	1.0 %	24 hrs; ISO 62
Moisture Absorption at Equilibrium	2.1 %	2.1 %	50% RH; ISO 62
Linear Mold Shrinkage	0.018 cm/cm @Thickness 2.00 mm	0.018 in/in @Thickness 0.0787 in	ISO 294-4
Linear Mold Shrinkage, Transverse	0.016 cm/cm @Thickness 2.00 mm	0.016 in/in @Thickness 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
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

Mechanical Properties	29.0 kJ/m ² Metric	13.8 ft-lb/in ² English	Comments
	@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	52.4 ft-lb/in ²	ISO 179
	@Temperature 23.0 °C	@Temperature 73.4 °F	

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