

Ascend Performance Materials Vydyn[®] 49 Nylon 66, Conditioned

Category : Polymer , Thermoplastic , Nylon , Nylon 66

Material Notes:

Vydyn[®] 49 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. Availability: Asia Pacific Europe North America Additive: Impact Modifier Features: Gasoline Resistance General Purpose Good Abrasion Resistance Good Chemical Resistance Good Processability Good Toughness High Impact Resistance Impact Modified Low Temperature Impact Resistance Oil Resistant Solvent Resistant Uses: Automotive Applications Connectors Consumer Applications Electrical/Electronic Applications Fasteners Gears General Purpose 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-49-Nylon-66-Conditioned.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.11 g/cc	1.11 g/cc	ISO 1183
Water Absorption	1.3 %	1.3 %	24 hrs; ISO 62
Moisture Absorption at Equilibrium	2.3 %	2.3 %	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	42.0 MPa	6090 psi	ISO 527
Tensile Strength, Yield	50.0 MPa	7250 psi	ISO 527
Elongation at Break	40 %	40 %	ISO 527
Tensile Modulus	21.3 GPa	3090 ksi	ISO 527-2
Flexural Strength	27.0 MPa	3920 psi	ISO 178
Flexural Modulus	0.890 GPa	129 ksi	ISO 178
Izod Impact, Notched (ISO)	10.0 kJ/m ² @Temperature -40.0 °C	4.76 ft-lb/in ² @Temperature -40.0 °F	ISO 180
	15.0 kJ/m ²	7.14 ft-lb/in ²	

Mechanical Properties	Metric	English	ISO 180 Comments
	37.0 kJ/m ² @Temperature 23.0 °C	17.6 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	0.600 J/cm ² @Temperature -40.0 °C	2.86 ft-lb/in ² @Temperature -40.0 °F	ISO 179
	1.00 J/cm ² @Temperature -30.0 °C	4.76 ft-lb/in ² @Temperature -22.0 °F	ISO 179
	4.30 J/cm ² @Temperature 23.0 °C	20.5 ft-lb/in ² @Temperature 73.4 °F	ISO 179

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