

Ascend Performance Materials Vydyne® 49 Nylon 66, Impact Modified, Conditioned

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

Material Notes:

Vydyne® 49 is general-purpose, impact-modified PA66 resin. Available in natural, 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 49 may be used in most market segments, including industrial, consumer, automotive and electrical applications. Typical end uses include clips, fasteners, gears, cable ties, electrical connectors and many other parts that require additional toughness at room and low temperatures. Availability:Asia PacificEuropeNorth AmericaAdditive:Impact Modifier Features: Gasoline ResistanceGeneral PurposeGood Abrasion ResistanceGood Chemical ResistanceGood ProcessabilityGood ToughnessHigh Impact ResistanceImpact ModifiedLow Temperature Impact ResistanceLow Temperature ToughnessOil 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-49-Nylon-66-Impact-Modified-Conditioned.php

Physical Properties	Metric	English	Comments
Density	1.11 g/cc	0.0401 lb/in ³	ISO 1183
Water Absorption	1.3 % @Time 86400 sec	1.3 % @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	42.0 MPa	6090 psi	ISO 527-2
Tensile Strength, Yield	50.0 MPa	7250 psi	ISO 527-2
Elongation at Break	40 %	40 %	ISO 527-2
Tensile Modulus	2.13 GPa	309 ksi	ISO 527-2
Flexural Strength	27.0 MPa	3920 psi	ISO 178

Flexural Modulus Mechanical Properties	8.90 GPa Metric	1290 ksi English	ISO 178 Comments
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 @Temperature -30.0 °C	7.14 ft-lb/in ² @Temperature -22.0 °F	ISO 180
	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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