Ascend Performance Materials Vydyne® R530H Nylon 66, 30% Glass Filled, Conditioned

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, 30% Glass Fiber Filled

Material Notes:

Vydyne® R530H is a general-purpose, heat-stabilized, hydrolysis-resistant, 30% glass-fiber reinforced PA66 resin. Available in natural, it is specifically designed to maximize the retention of physical properties when exposed to anti-freeze solutions at elevated temperatures. This product is lubricated for improved machine feed and flow. Glass-reinforced Vydne resins provide higher heat distortion temperature, resistance to creep and better dimensional stability when compared with unreinforced PA66. These products have good chemical resistance to a broad range of chemicals including gasoline, hydraulic fluids and most solvents. Vydnyne R530H resin is heat-stabilized to minimize oxidative degradation of the polymer when exposed elevated temperatures in service. This product provides improved retention of physical properties under exposure to long-term heat. Also, Vydyne R530H has excellent knit-line strength and fatigue resistance, which is essential for cycle testing with anti-freeze solutions. Typical Applications/End Uses: Vydyne R525H resin is used for several under-the-hood automotive applications. The hydrolysis-resistant properties makes it an excellent candidate for radiator end tank and heater core applications.Availability:Asia PacificEuropeNorth AmericaAdditive: Heat StabilizerLubricant Features:Antifreeze ResistantFatigue ResistantGasoline ResistanceGood Chemical ResistanceGood FlowHeat Stabilized LubricatedSolvent ResistantUses:Automotive Under the HoodAppearance: Natural ColorForms: PelletsProcessing Method: Injection Molding

Order this product through the following link:
http://www.lookpolymers.com/polymer_Ascend-Performance-Materials-Vydyne-R530H-Nylon-66-30-Glass-Filled-Conditioned.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.37 g/cc	1.37 g/cc	ISO 1183
Water Absorption	0.90 % @Time 86400 sec	0.90 % @Time 24.0 hour	ISO 62
Moisture Absorption at Equilibrium	1.9 %	1.9 %	50% RH; ISO 62
Linear Mold Shrinkage	0.0040 cm/cm @Thickness 2.00 mm	0.0040 in/in @Thickness 0.0787 in	ISO 294-4
Linear Mold Shrinkage, Transverse	0.0090 cm/cm @Thickness 2.00 mm	0.0090 in/in @Thickness 0.0787 in	ISO 294-4

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	135 MPa	19600 psi	ISO 527-2
Elongation at Break	6.0 %	6.0 %	ISO 527-2
Tensile Modulus	7.40 GPa	1070 ksi	ISO 527-2
Flexural Strength	190 MPa	27600 psi	ISO 178

Mechanical Properties	Metric	English	Comments
Flexural Modulus	6.00 GPa	870 ksi	ISO 178
Izod Impact, Notched (ISO)	11.0 kJ/m² @Temperature -30.0 °C	5.24 ft-lb/in² @Temperature -22.0 °F	ISO 180
	13.0 kJ/m² @Temperature 23.0 °C	6.19 ft-lb/in² @Temperature 73.4 °F	ISO 180
Charpy Impact Unnotched	8.00 J/cm² @Temperature -30.0 °C	38.1 ft-lb/in² @Temperature -22.0 °F	ISO 179
	8.50 J/cm² @Temperature 23.0 °C	40.5 ft-lb/in² @Temperature 73.4 °F	ISO 179
Charpy Impact, Notched	1.10 J/cm² @Temperature -30.0 °C	5.24 ft-lb/in² @Temperature -22.0 °F	ISO 179
	1.30 J/cm² @Temperature 23.0 °C	6.19 ft-lb/in² @Temperature 73.4 °F	ISO 179

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