

Ascend Performance Materials Vydyne® R550H Nylon 66, 50% Glass Reinforced, Conditioned

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66 , 50% Glass Fiber Filled

Material Notes:

Vydyne® R550H is general-purpose, heat-stabilized, hydrolysis-resistant, 50% 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 also lubricated for improved flow and offers superior surface appearance. Glass-reinforced Vydyne 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. Vydyne R550H is heat-stabilized to minimize oxidative degradation of the polymer when exposed to elevated temperatures in service. This product provides improved retention of physical properties under exposures to long term heat. Also, Vydyne R550H has excellent knit-line strength and fatigue resistance, which is essential for cycle testing with anti-freeze solutions. Typical Applications/End Uses: Vydyne R550H is successfully used in a wide range of injection-molding engineering applications. Typical parts include automotive clips, radiator end-tanks and parts of the air-conditioning and fuel distribution systems; electrical connectors, housings and bobbins; and industrial applications such as gears, bearing shells, covers and housings. Availability:Asia PacificEuropeNorth AmericaFiller/Reinforcement:Glass Fiber, 50% Filler by WeightAdditive:LubricantHeat Stabilizer Features:Good FlowGood Mold ReleaseHeat Stabilized High RigidityHigh Strength Lubricated Uses:Automotive Under the HoodGearsHousingsPower/Other ToolsAppearance: 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-R550H-Nylon-66-50-Glass-Reinforced-Conditioned.php

Physical Properties	Metric	English	Comments
Density	1.58 g/cc	0.0571 lb/in ³	ISO 1183
Water Absorption	0.50 % @Time 86400 sec	0.50 % @Time 24.0 hour	ISO 62
Moisture Absorption at Equilibrium	1.2 %	1.2 %	50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0040 cm/cm @Diameter 2.00 mm	0.0040 in/in @Diameter 0.0787 in	ISO 294-4
Linear Mold Shrinkage, Transverse	0.0090 cm/cm @Diameter 2.00 mm	0.0090 in/in @Diameter 0.0787 in	ISO 294-4

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	190 MPa	27600 psi	ISO 527-2
Elongation at Break	2.8 %	2.8 %	ISO 527-2
Tensile Modulus	15.2 GPa	2200 ksi	ISO 527-2

Mechanical Properties	270 MPa Metric	39200 psi English	ISO 178 Comments
Flexural Modulus	11.2 GPa	1620 ksi	ISO 178
Izod Impact, Notched (ISO)	18.0 kJ/m ² @Temperature -30.0 °C	8.57 ft-lb/in ² @Temperature -22.0 °F	ISO 180
	21.0 kJ/m ² @Temperature 23.0 °C	9.99 ft-lb/in ² @Temperature 73.4 °F	ISO 180
Charpy Impact Unnotched	9.50 J/cm ² @Temperature -30.0 °C	45.2 ft-lb/in ² @Temperature -22.0 °F	ISO 179/1eU
	11.0 J/cm ² @Temperature 23.0 °C	52.3 ft-lb/in ² @Temperature 73.4 °F	ISO 179/1eU
Charpy Impact, Notched	1.50 J/cm ² @Temperature -30.0 °C	7.14 ft-lb/in ² @Temperature -22.0 °F	ISO 179/1eA
	2.10 J/cm ² @Temperature 23.0 °C	9.99 ft-lb/in ² @Temperature 73.4 °F	ISO 179/1eA

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