

Ascend Performance Materials Vydyne® R515H Nylon 66, 15% Glass Reinforced, Conditioned

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66 , 20% Glass Fiber Filled

Material Notes:

Vydyne® R515H is general-purpose, heat-stabilized, hydrolysis-resistant, 15% 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 fluid and most solvents. Vydyne R515H 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 exposure to long-term heat. Also Vydyne R515H has excellent knit-line strength and fatigue resistance, which is essential for cycle testing with anti-freeze solutions. Typical Applications/End uses: Vydyne R515H is successfully mused in a wide range of injection molding engineering applications, including automotive clips, radiator end tanks, parts of the air-conditioning and petrol distribution system, etc. (under the hood); electrical connectors, housings, bobbins, etc.; and industrial applications such as gears, bearing shells, covers, housings, etc. Availability: Asia Pacific Europe North America Filler/Reinforcement: Glass Fiber, 15% Filler by Weight Additive: Heat Stabilizer Lubricant Features: Gasoline Resistance Good Chemical Resistance Good Flow Good Mold Release Grease Resistant Heat Stabilized High Rigidity High Strength Lubricated Oil Resistant Solvent Resistant Uses: Automotive Under the Hood Gears Housings Power/Other Tools Appearance: Natural Color Forms: Pellets Processing Method: Injection Molding Information provided by Ascend Performance Materials.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Ascend-Performance-Materials-Vydyne-R515H-Nylon-66-15-Glass-Reinforced-Conditioned.php

Physical Properties	Metric	English	Comments
Density	1.24 g/cc	0.0448 lb/in ³	ISO 1183
Water Absorption	1.0 % @Time 86400 sec	1.0 % @Time 24.0 hour	ISO 62
Moisture Absorption at Equilibrium	2.2 %	2.2 %	50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0050 cm/cm @Diameter 2.00 mm	0.0050 in/in @Diameter 0.0787 in	ISO 294-4
Linear Mold Shrinkage, Transverse	0.010 cm/cm @Diameter 2.00 mm	0.010 in/in @Diameter 0.0787 in	ISO 294-4

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	80.0 MPa	11600 psi	ISO 527-2
Elongation at Break	13 %	13 %	ISO 527-2

Tensile Modulus Mechanical Properties	4.00 GPa Metric	580 ksi English	ISO 527-2 Comments
Flexural Strength	110 MPa	16000 psi	ISO 178
Flexural Modulus	3.25 GPa	471 ksi	ISO 178
Izod Impact, Notched (ISO)	5.40 kJ/m ²	2.57 ft-lb/in ²	ISO 180
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	7.00 kJ/m ²	3.33 ft-lb/in ²	ISO 180
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact Unnotched	3.80 J/cm ²	18.1 ft-lb/in ²	ISO 179
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	4.30 J/cm ²	20.5 ft-lb/in ²	ISO 179
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact, Notched	0.530 J/cm ²	2.52 ft-lb/in ²	ISO 179
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	0.750 J/cm ²	3.57 ft-lb/in ²	ISO 179
	@Temperature 23.0 °C	@Temperature 73.4 °F	

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