

Ascend Performance Materials Vydyne® R533H BK02 Nylon 66, 33% Glass Reinforced, Conditioned

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

Material Notes:

Vydyne® R533H BK02 is 33% glass-fiber reinforced, heat-stabilized PA66 resin. Available in black, 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 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 R33H BK02 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 R533H BK02 has excellent knit-line strength and fatigue resistance, which is essential for cycle testing with anti-freeze solutions. Typical Applications/End Uses: Vydyne R533H BK02 has been used for several under-the-hood automotive applications. The hydrolysis-resistant properties make it an excellent candidate for radiator end tank and heater core applications. Availability: Asia Pacific EuropeNorth America Filler/Reinforcement: Glass Fiber, 33% Filler by Weight Additive: Heat Stabilizer Lubricant Features: Good Mold Release Heat Stabilized High Flow High Rigidity High Strength Lubricated Uses: Automotive Under the Hood Gears Housings Power/Other Tools Appearance: Black 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-R533H-BK02-Nylon-66-33-Glass-Reinforced-Conditioned.php

Physical Properties	Metric	English	Comments
Density	1.40 g/cc	0.0506 lb/in³	ISO 1183
Water Absorption	0.80 %	0.80 %	ISO 62
	@Time 86400 sec	@Time 24.0 hour	130 02
Moisture Absorption at Equilibrium	1.7 %	1.7 %	50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0040 cm/cm	0.0040 in/in	ISO 294-4
	@Diameter 2.00 mm	@Diameter 0.0787 in	
Linear Mold Shrinkage, Transverse	0.0090 cm/cm	0.0090 in/in	ISO 294-4
	@Diameter 2.00 mm	@Diameter 0.0787 in	100 234 4

Mechanical Properties	Metric	English	Comments	
Tensile Strength at Break	145 MPa	21000 psi	ISO 527-2	
Elongation at Break	5.0 %	5.0 %	ISO 527-2	
Tensile Modulus	7.90 GPa	1150 ksi	ISO 527-2	



Mechanical Properties	200 MPa Metric	29000 psi English	Comments	
Flexural Modulus	6.50 GPa	943 ksi	ISO 178	
Izod Impact, Notched (ISO)	12.0 kJ/m²	5.71 ft-lb/in ²	ISO 180	
	@Temperature -30.0 °C	@Temperature -22.0 °F	150 160	
	14.0 kJ/m²	6.66 ft-lb/in ²	ISO 180	
	@Temperature 23.0 °C	@Temperature 73.4 °F		
Charpy Impact Unnotched	8.50 J/cm ²	40.4 ft-lb/in ²	ISO 179/1eU	
	@Temperature -30.0 °C	@Temperature -22.0 °F		
	9.00 J/cm ²	42.8 ft-lb/in ²	ISO 179/1eU	
	@Temperature 23.0 °C	@Temperature 73.4 °F		
Charpy Impact, Notched	1.20 J/cm ²	5.71 ft-lb/in ²	ISO 179/1eA	
	@Temperature -30.0 °C	@Temperature -22.0 °F	100 113/ TCA	
	1.40 J/cm ²	6.66 ft-lb/in ²	ISO 179/1eA	
	@Temperature 23.0 °C	@Temperature 73.4 °F	IOO II J/ ICA	

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