Ascend Performance Materials Vydyne® R525H BK0201 Nylon 66, 25% Glass Reinforced, Conditioned

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

Material Notes:

Vydyne® R525H BK0201 is hydrolysis-resistant, 25% 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 R525H BK0201 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 R525H BK0201 has excellent knit-line strength and fatigue resistance, which is essential for cycle testing with anti-freeze solutions. Typical Applications/End Uses: Vydyne R525H BK0201 resin is used for under-the-hood automotive applications. It is hydrolysis-resistant properties make R525H BK0201 an excellent candidate for radiator end tank and heater core applications. Availability:Asia PacificEuropeNorth AmericaFiller/Reinforcement:Glass Fiber, 25% Filler by WeightAdditive:Heat StabilizerLubricant Features: Antifreeze ResistantFatigue ResistantGasoline ResistanceGood Chemical ResistanceGood FlowHeat StabilizedHydrolysis ResistantLubricated Solvent ResistantUses: Automotive Under the Hood Appearance: BlackForms: 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-R525H-BK0201-Nylon-66-25-Glass-Reinforced-Conditioned.php

Physical Properties	Metric	English	Comments
Density	1.32 g/cc	0.0477 lb/in³	ISO 1183
Water Absorption	0.90 % @Time 86400 sec	0.90 % @Time 24.0 hour	ISO 62
Moisture Absorption at Equilibrium	2.0 %	2.0 %	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 at Break	117 MPa	17000 psi	ISO 527-2
Elongation at Break	7.0 %	7.0 %	ISO 527-2
Tensile Modulus	5.50 GPa	798 ksi	ISO 527-2

Mechanical Properties	Metric	English	Comments
Flexural Strength	150 MPa	21800 psi	ISO 178
Flexural Modulus	5.70 GPa	827 ksi	ISO 178
Izod Impact, Notched (ISO)	10.0 kJ/m² @Temperature -30.0 °C	4.76 ft-lb/in² @Temperature -22.0 °F	ISO 180
	15.0 kJ/m² @Temperature 23.0 °C	7.14 ft-lb/in² @Temperature 73.4 °F	ISO 180
Charpy Impact Unnotched	6.60 J/cm² @Temperature -30.0 °C	31.4 ft-lb/in² @Temperature -22.0 °F	ISO 179/1eU
	6.70 J/cm² @Temperature 23.0 °C	31.9 ft-lb/in² @Temperature 73.4 °F	ISO 179/1eU
Charpy Impact, Notched	1.00 J/cm² @Temperature -30.0 °C	4.76 ft-lb/in² @Temperature -22.0 °F	ISO 179/1eA
	1.20 J/cm² @Temperature 23.0 °C	5.71 ft-lb/in² @Temperature 73.4 °F	ISO 179/1eA

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