Ascend Performance Materials VYDYNE® R533H Nylon, 33% Glass Reinforced, Conditioned

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

Material Notes:

Vydyne® R533H is 33% glass-fiber reinforced, heat-stabilized 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 R533H resin is heat-stabilized to minimize oxative 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 R533H resin has excellent knit-line strength and fatigue resistance, which is essential for cycle testing with anti-freeze solutions. Typical Applications/End Uses: Typical uses include packaging films, monofilaments, bristles, rods, tubing, sheet and extruded profiles.Availability:Asia PacificEuropeNorth AmericaAdditive: Heat StabilizerLubricant Features:Good Mold ReleaseHeat StabilizedHigh FlowHigh RigidityHigh StrengthLubricatedUses:Automotive Under the HoodGearsHousingsPower/Other ToolsAppearance: Natural ColorForms: PelletsProcessing Method: Injection MoldingInformation provided by manufacture

Order this product through the following link:
http://www.lookpolymers.com/polymer_Ascend-Performance-Materials-VYDYNE-R533H-Nylon-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 % @Time 86400 sec	0.80 % @Time 24.0 hour	ISO 62
Moisture Absorption at Equilibrium	1.7 %	1.7 %	50% RH; ISO 62
Linear Mold Shrinkage, Flow	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	145 MPa	21000 psi	ISO 527-2
Elongation at Break	5.0 %	5.0 %	PDWV11
Tensile Modulus	7.90 GPa	1150 ksi	PDWV11
Flexural Strength	200 MPa	29000 psi	ISO 178
Flexural Modulus	6.50 GPa	943 ksi	ASTM D790

Mechanical Properties	Metric	English	Comments
Izod Impact, Notched (ISO)	12.0 kJ/m²	5.71 ft-lb/in²	ISO 180
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	14.0 kJ/m²	6.66 ft-lb/in²	ISO 180
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact Unnotched	8.50 J/cm²	40.5 ft-lb/in²	ISO 179/1eU
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	9.00 J/cm²	42.8 ft-lb/in²	ISO 179/1eU
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact, Notched	1.20 J/cm²	5.71 ft-lb/in²	ISO 179/1eA
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	1.40 J/cm²	6.66 ft-lb/in²	ISO 179/1eA
	@Temperature 23.0 °C	@Temperature 73.4 °F	

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