

Ascend Performance Materials Vydyne® R533H01 Nylon 66, 33% Glass Reinforced, Conditioned

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

Material Notes:

Vydyne® R533H01 is 33% glass-fiber reinforced, hydrolysis-resistant, 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 R533H01 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 R533H01 has excellent knit-line strength and fatigue resistance, which is essential for cycle testing with anti-freeze solutions. Typical Applications/End Uses: Vydyne R533H01 has been used for several under-the-hood automotive applications, motor housings for power tools and garden appliance. This resin has also been used in miscellaneous brackets, gears and clips that require high rigidity and strength. Availability:Asia PacificEuropeNorth AmericaFiller/Reinforcement:Glass Fiber, 33% Filler by WeightAdditive:Heat StabilizerLubricant Features:Good FlowGood Mold ReleaseHeat Stabilized High RigidityHigh StrengthHydrolysis Resistant Lubricated Uses: Automotive Under the HoodGearsHousingsPower/Other Tools 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-R533H01-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	
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	

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
Flexural Strength	200 MPa	29000 psi	ISO 178



Mechanical Properties	Metric _{>2}	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/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	
	1.40 J/cm²	6.66 ft-lb/in ²	ISO 179/1eA
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Contact Songhan Plastic Technology Co.,Ltd.

Website: www.lookpolymers.com Email: sales@lookpolymers.com

Tel: +86 021-51131842 Mobile: +86 13061808058

Skype: lookpolymers

Address: United North Road 215, Fengxian District, Shanghai City, China