Ascend Performance Materials Vydyne® R535H NT651 Nylon 66, 35% Glass Reinforced, DAM

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, 40% Glass Fiber Filled

Material Notes:

Vydyne® R535H NT651 is 35% glass-fiber reinforced PA66 resin. Available in natural, it is heat-stabilized with an electrically neutral heat stabilizer. It is designed specially for electrical applications requiring high dielectric strength, low conductivity and corrosion resistance.Availability:Asia PacificEuropeNorth AmericaFiller/Reinforcement:Glass Fiber, 35% Filler by WeightAdditive:LubricantHeat Stabilizer Features: Antifreeze ResistantFatigue ResistantGasoline ResistanceGood Chemical ResistanceGood FlowHeat StabilizedHydrolysis ResistantLubricatedSolvent ResistantUses:Electrical/Electronic ApplicationsAppearance: Natural ColorForms: 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-R535H-NT651-Nylon-66-35-Glass-Reinforced-DAM.php

Physical Properties	Metric	English	Comments
Density	1.41 g/cc	0.0509 lb/in³	ISO 1183
Water Absorption	0.80 % @Time 86400 sec	0.80 % @Time 24.0 hour	ISO 62
Moisture Absorption at Equilibrium	1.6 %	1.6 %	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, Yield	209 MPa	30300 psi	ISO 527-2
Elongation at Break	2.8 %	2.8 %	ISO 527-2
Tensile Modulus	11.6 GPa	1680 ksi	ISO 527-2
Flexural Strength	300 MPa	43500 psi	ISO 178
Flexural Modulus	10.5 GPa	1520 ksi	ISO 178
Poissons Ratio	0.35	0.35	ISO 527-2
Izod Impact, Notched (ISO)	11.0 kJ/m² @Temperature -30.0 °C	5.23 ft-lb/in² @Temperature -22.0 °F	ISO 180
	12.0 kJ/m²	5.71 ft-lb/in²	

Mechanical Properties	Metric	English	Comments
	@Temperature 23.0 °C	@Temperature 73.4 °F	ISO 180
Charpy Impact Unnotched	6.80 J/cm² @Temperature -30.0 °C	32.4 ft-lb/in² @Temperature -22.0 °F	ISO 179/1eU
	7.90 J/cm² @Temperature 23.0 °C	37.6 ft-lb/in² @Temperature 73.4 °F	ISO 179/1eU
Charpy Impact, Notched	1.10 J/cm² @Temperature -30.0 °C	5.23 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

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	2.10 µm/m-°C @Thickness 2.00 mm, Temperature 23.0 - 55.0 °C	1.17 µin/in-°F @Thickness 0.0787 in, Temperature 73.4 - 131 °F	ISO 11359-2
CTE, linear, Transverse to Flow	11.0 µm/m-°C @Thickness 2.00 mm, Temperature 23.0 - 55.0 °C	6.11 µin/in-°F @Thickness 0.0787 in, Temperature 73.4 - 131 °F	ISO 11359-2
Melting Point	260 °C	500 °F	ISO 11357-3
Deflection Temperature at 0.46 MPa (66 psi)	251 °C	484 °F	Unannealed; ISO 75-2/B
Deflection Temperature at 1.8 MPa (264 psi)	251 °C	484 °F	Unannealed; ISO 75-2/A

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	280 - 310 °C	536 - 590 °F	
Middle Barrel Temperature	280 - 310 °C	536 - 590 °F	
Front Barrel Temperature	280 - 310 °C	536 - 590 °F	
Nozzle Temperature	280 - 310 °C	536 - 590 °F	
Melt Temperature	285 - 305 °C	545 - 581 °F	
Mold Temperature	65.0 - 95.0 °C	149 - 203 °F	
Drying Temperature	80.0 °C	176 °F	
Dry Time	4.00 hour	4.00 hour	

Descriptive Properties	Value	Comments
Suggested Max Regrind	25 %	

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