

Ascend Performance Materials Vydyn® R535H NT651 Nylon 66, 35% Glass Reinforced, Conditioned

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

Material Notes:

Vydyn® 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 Pacific Europe North America Filler/Reinforcement: Glass Fiber, 35% Filler by Weight Additive: Lubricant Heat Stabilizer Features: Antifreeze Resistant Fatigue Resistant Gasoline Resistance Good Chemical Resistance Good Flow Heat Stabilized Hydrolysis Resistant Lubricated Solvent Resistant Uses: Electrical/Electronic Applications Appearance: Natural Color 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-Vydyn-R535H-NT651-Nylon-66-35-Glass-Reinforced-Conditioned.php

Physical Properties	Metric	English	Comments
Density	1.41 g/cc	0.0509 lb/in ³	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	153 MPa	22200 psi	ISO 527-2
Elongation at Break	4.0 %	4.0 %	ISO 527-2
Tensile Modulus	8.98 GPa	1300 ksi	ISO 527-2
Flexural Strength	189 MPa	27400 psi	ISO 178
Flexural Modulus	6.97 GPa	1010 ksi	ISO 178
Izod Impact, Notched (ISO)	12.0 kJ/m ² @Temperature -30.0 °C	5.71 ft-lb/in ² @Temperature -22.0 °F	ISO 180
	14.0 kJ/m ² @Temperature 23.0 °C	6.66 ft-lb/in ² @Temperature 73.4 °F	ISO 180

Mechanical Properties	Metric J/cm ²	English ft-lb/in ²	Comments
Charpy Impact Unnotched	@Temperature -30.0 °C	@Temperature -22.0 °F	ISO 179/1eU
	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/cm ²	6.66 ft-lb/in ²	ISO 179/1eA
	@Temperature 23.0 °C	@Temperature 73.4 °F	

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