

Ascend Performance Materials Vydyne® R550 Nylon 66, 50% Glass Reinforced, Conditioned

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, 50% Glass Fiber Filled

Material Notes:

Vydyne® R550 is general-purpose, hydrolysis-resistant, 50% glass-fiber reinforced PA66 resin. Available in natural, it is also lubricated for improved flow and offers superior surface appearance. 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. Availability:Asia PacificEuropeNorth AmericaFiller/Reinforcement:Glass Fiber, 50% Filler by WeightAdditive:Lubricant Features:Good FlowGood Mold Release High RigidityHigh StrengthHydrolysis ResistantLubricated Uses:GearsHousingsPower/Other ToolsAppearance: 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-R550-Nylon-66-50-Glass-Reinforced-Conditioned.php

Physical Properties	Metric	English	Comments
Density	1.58 g/cc	0.0571 lb/in ³	ISO 1183
Water Absorption	0.50 % @Time 86400 sec	0.50 % @Time 24.0 hour	ISO 62
Moisture Absorption at Equilibrium	1.2 %	1.2 %	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	190 MPa	27600 psi	ISO 527-2
Elongation at Break	2.8 %	2.8 %	ISO 527-2
Tensile Modulus	15.2 GPa	2200 ksi	ISO 527-2
Flexural Strength	270 MPa	39200 psi	ISO 178
Flexural Modulus	11.2 GPa	1620 ksi	ISO 178
Izod Impact, Notched (ISO)	18.0 kJ/m ² @Temperature -30.0 °C	8.57 ft-lb/in ² @Temperature -22.0 °F	ISO 180
	21.0 kJ/m ²	9.99 ft-lb/in ²	ISO 180

Mechanical Properties	@Temperature 23.0 °C Metric	@Temperature 73.4 °F English	Comments
Charpy Impact Unnotched	9.50 J/cm ²	45.2 ft-lb/in ²	ISO 179/1eU
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	11.0 J/cm ²	52.3 ft-lb/in ²	ISO 179/1eU
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact, Notched	1.50 J/cm ²	7.14 ft-lb/in ²	ISO 179/1eA
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	2.10 J/cm ²	9.99 ft-lb/in ²	ISO 179/1eA
	@Temperature 23.0 °C	@Temperature 73.4 °F	

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