

Ascend Performance Materials Vydyn® R540 Nylon 66, 40% Glass Reinforced, Conditioned

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

Material Notes:

Vydyn® R540 is general-purpose, hydrolysis-resistant, 40% glass-fiber reinforced PA66 resin. Available in natural, it is specifically designed to maximize the retention of physical properties when exposed to anti-freeze solution at elevated temperatures. This product is also lubricated for improved flow and offers superior surface appearance. Glass-reinforced Vydyn 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, 40% Filler by WeightAdditive:Lubricant Features: Antifreeze ResistantFatigue ResistantGasoline ResistanceGood Chemical ResistanceGood FlowHydrolysis ResistantLubricatedSolvent Resistant Appearance: 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-Vydyn-R540-Nylon-66-40-Glass-Reinforced-Conditioned.php

Physical Properties	Metric	English	Comments
Density	1.46 g/cc	0.0527 lb/in³	ISO 1183
Water Absorption	0.60 % @Time 86400 sec	0.60 % @Time 24.0 hour	ISO 62
Moisture Absorption at Equilibrium	1.5 %	1.5 %	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	165 MPa	23900 psi	ISO 527-2
Elongation at Break	4.0 %	4.0 %	ISO 527-2
Tensile Modulus	11.1 GPa	1610 ksi	ISO 527-2
Flexural Strength	250 MPa	36300 psi	ISO 178
Flexural Modulus	9.30 GPa	1350 ksi	ISO 178
Izod Impact, Notched (ISO)	13.0 kJ/m² @Temperature -30.0 °C	6.19 ft-lb/in² @Temperature -22.0 °F	ISO 180

Mechanical Properties	19.0 kJ/m ² Metric	9.04 ft-lb/in ² English	Comments
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact Unnotched	8.70 J/cm ²	41.4 ft-lb/in ²	ISO 179
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	9.20 J/cm ²	43.8 ft-lb/in ²	ISO 179
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact, Notched	1.10 J/cm ²	5.23 ft-lb/in ²	ISO 179
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	1.90 J/cm ²	9.04 ft-lb/in ²	ISO 179
	@Temperature 23.0 °C	@Temperature 73.4 °F	

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