

Ascend Performance Materials Vydyn[®] R525 Nylon 66, 25% Glass Reinforced, Conditioned

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

Material Notes:

Vydyn[®] R525 is hydrolysis-resistant, 25% glass-fiber reinforced PA66 resin. Available in natural it is lubricated for improved machine feed and flow. Glass-reinforced Vydyn resins provide higher heat distortion temperature, resistance to creep and better dimensional stability when compared with unreinforced PA66. This product has good chemical resistance to a broad range of chemicals including gasoline, hydraulic fluids and most solvents. Availability: Asia Pacific Europe North America Filler/Reinforcement: Glass Fiber, 25% Filler by Weight Additive: Lubricant Features: Antifreeze Resistance Fatigue Resistant Gasoline Resistance Good Flow Heat Stabilized Hydrolysis Resistant Lubricated Oil Resistant Solvent Resistant Uses: Automotive Under the Hood 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-R525-Nylon-66-25-Glass-Reinforced-Conditioned.php

Physical Properties	Metric	English	Comments
Density	1.32 g/cc	0.0477 lb/in ³	ISO 1183
Water Absorption	0.90 % @Time 86400 sec	0.90 % @Time 24.0 hour	ISO 62
Moisture Absorption at Equilibrium	2.0 %	2.0 %	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	117 MPa	17000 psi	ISO 527-2
Elongation at Break	7.0 %	7.0 %	ISO 527-2
Tensile Modulus	5.50 GPa	798 ksi	ISO 527-2
Flexural Strength	150 MPa	21800 psi	ISO 178
Flexural Modulus	5.70 GPa	827 ksi	ISO 178
Izod Impact, Notched (ISO)	10.0 kJ/m ² @Temperature -30.0 °C	4.76 ft-lb/in ² @Temperature -22.0 °F	ISO 180
	15.0 kJ/m ²	7.14 ft-lb/in ²	ISO 180

Mechanical Properties	@Temperature 23.0 °C Metric	@Temperature 73.4 °F English	Comments
Charpy Impact Unnotched	6.60 J/cm ²	31.4 ft-lb/in ²	ISO 179/1eU
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	6.70 J/cm ²	31.9 ft-lb/in ²	ISO 179/1eU
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact, Notched	1.00 J/cm ²	4.76 ft-lb/in ²	ISO 179/1eA
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	1.20 J/cm ²	5.71 ft-lb/in ²	ISO 179/1eA
	@Temperature 23.0 °C	@Temperature 73.4 °F	

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