

Ascend Performance Materials Vydyn[®] R533 Nylon 66, 33% Glass Filled, Conditioned (2.5% Moisture)

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

Material Notes:

Vydyn[®] R533 is general-purpose, 33% glass-reinforced PA66 resin. Available in natural, it is an injection-molding grade resin that is lubricated for good machine feed, flow, and mold release. Glass-reinforced Vydyn resins provide a 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. Vydyn R533 has tensile strength and modulus properties just below aluminum and zinc and can replace these metals in numerous applications due to an excellent balance of properties. Reduction in production costs, energy consumption and part weight are key advantages of Vydyn glass-reinforced PA66 resins over aluminum and/or zinc die-cast parts. Typical Applications/End Uses: Vydyn R533 resin has been used for many under-the-hood automotive applications, motor housings for power tools and garden appliances. The resin has also been used in miscellaneous brackets, gears and clips, which require high rigidity and strength. Availability: Asia Pacific Europe North America Filler/Reinforcement: Glass Fiber, 33% Filler by Weight Additive: Lubricant Features: Good Flow Good Mold Release High Rigidity High Strength Lubricated Uses: Automotive Under the Hood Gears Housings Power/Other Tools Appearance: Natural Color Forms: Pellets Processing Method: Injection Molding

Order this product through the following link:

http://www.lookpolymers.com/polymer_Ascend-Performance-Materials-Vydyn-R533-Nylon-66-33-Glass-Filled-Conditioned-25-Moisture.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.40 g/cc	1.40 g/cc	ISO 1183
Water Absorption	0.80 % @Time 86400 sec	0.80 % @Time 24.0 hour	ISO 62
Moisture Absorption at Equilibrium	1.7 %	1.7 %	50% RH; ISO 62
Linear Mold Shrinkage	0.0040 cm/cm @Thickness 2.00 mm	0.0040 in/in @Thickness 0.0787 in	ISO 294-4
Linear Mold Shrinkage, Transverse	0.0090 cm/cm @Thickness 2.00 mm	0.0090 in/in @Thickness 0.0787 in	ISO 294-4

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	145 MPa	21000 psi	ISO 527-2
Elongation at Break	5.0 %	5.0 %	ISO 527-2
Tensile Modulus	7.90 GPa	1150 ksi	ISO 527-2
Flexural Strength	200 MPa	29000 psi	ISO 178
Flexural Modulus	6.50 GPa	943 ksi	ISO 178

Mechanical Properties	Metric	English	Comments
Izod Impact, Notched (ISO)	@Temperature -30.0 °C	@Temperature -22.0 °F	ISO 180
	14.0 kJ/m ²	6.66 ft-lb/in ²	ISO 180
Charpy Impact Unnotched	@Temperature 23.0 °C	@Temperature 73.4 °F	ISO 179
	8.50 J/cm ²	40.5 ft-lb/in ²	ISO 179
Charpy Impact, Notched	@Temperature -30.0 °C	@Temperature -22.0 °F	ISO 179
	9.00 J/cm ²	42.8 ft-lb/in ²	ISO 179
Charpy Impact, Notched	@Temperature 23.0 °C	@Temperature 73.4 °F	ISO 179
	1.20 J/cm ²	5.71 ft-lb/in ²	ISO 179
	@Temperature -30.0 °C	@Temperature -22.0 °F	ISO 179
	1.40 J/cm ²	6.66 ft-lb/in ²	ISO 179
	@Temperature 23.0 °C	@Temperature 73.4 °F	

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