

Ascend Performance Materials Vydyne® R515 Nylon 66, 15% Glass Reinforced, Conditioned

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, 20% Glass Fiber Filled

Material Notes:

Vydyne® R515 is general-purpose, 15% glass-fiber reinforced PA66 resin. Availability:Asia PacificEuropeNorth

AmericaFiller/Reinforcement:Glass Fiber, 15% Filler by WeightAdditive:Lubricant Features: Gasoline ResistanceGood Chemical

ResistanceGood FlowGood Mold ReleaseGrease ResistantHeat StabilizedHigh RigidityHigh StrengthLubricatedOil ResistantSolvent

ResistantUses:Automotive Under the HoodGearsHousingsPower/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-R515-Nylon-66-15-Glass-Reinforced-Conditioned.php

Physical Properties	Metric	English	Comments
Density	1.24 g/cc	0.0448 lb/in ³	ISO 1183
Water Absorption	1.0 % @Time 86400 sec	1.0 % @Time 24.0 hour	ISO 62
Moisture Absorption at Equilibrium	2.2 %	2.2 %	50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0050 cm/cm @Diameter 2.00 mm	0.0050 in/in @Diameter 0.0787 in	ISO 294-4
Linear Mold Shrinkage, Transverse	0.010 cm/cm @Diameter 2.00 mm	0.010 in/in @Diameter 0.0787 in	ISO 294-4

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	80.0 MPa	11600 psi	ISO 527-2
Elongation at Break	13 %	13 %	ISO 527-2
Tensile Modulus	4.00 GPa	580 ksi	ISO 527-2
Flexural Strength	110 MPa	16000 psi	ISO 178
Flexural Modulus	3.25 GPa	471 ksi	ISO 178
Izod Impact, Notched (ISO)	5.40 kJ/m ² @Temperature -30.0 °C	2.57 ft-lb/in ² @Temperature -22.0 °F	ISO 180
	7.00 kJ/m ² @Temperature 23.0 °C	3.33 ft-lb/in ² @Temperature 73.4 °F	ISO 180
	3.80 J/cm ²	18.1 ft-lb/in ²	

Charpy Impact Unnotched Mechanical Properties	Metric @Temperature -30.0 °C	English @Temperature -22.0 °F	ISO 179 Comments
	4.30 J/cm ²	20.5 ft-lb/in ²	ISO 179
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact, Notched	0.530 J/cm ²	2.52 ft-lb/in ²	ISO 179
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	0.750 J/cm ²	3.57 ft-lb/in ²	ISO 179
	@Temperature 23.0 °C	@Temperature 73.4 °F	

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