

## Ascend Performance Materials Vydyn<sup>®</sup> R525H Nylon 66, 25% Glass Filled, Conditioned (2.5% Moisture)

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

### Material Notes:

Vydyn<sup>®</sup> R525H is hydrolysis-resistant, 25% glass-fiber reinforced, heat-stabilized PA66 resin. Available in natural, it is specifically designed to maximize the retention of physical properties when exposed to anti-freeze solutions at elevated temperatures. This product is lubricated for improved machine feed and flow. Glass-reinforced Vydne 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. Vydyn R525H resin is heat-stabilized to minimize oxidative degradation of the polymer when exposed elevated temperatures in service. This product provides improved retention of physical properties under exposure to long-term heat. Also, Vydyn R525H has excellent knit-line strength and fatigue resistance, which is essential for cycle testing with anti-freeze solutions. Typical Applications/End Uses: Vydyn R525H resin is used for under-the-hood automotive applications. Its hydrolysis-resistant properties make R525 an excellent candidate for radiator end tank and heater core applications. Availability: Asia Pacific Europe North America Additive: Heat Stabilizer Lubricant Features: Antifreeze Resistant Fatigue Resistant Gasoline Resistance Good Chemical Resistance Good Flow Heat Stabilized Lubricated Solvent Resistant Uses: Automotive Under the Hood 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-R525H-Nylon-66-25-Glass-Filled-Conditioned-25-Moisture.php](http://www.lookpolymers.com/polymer_Ascend-Performance-Materials-Vydyn-R525H-Nylon-66-25-Glass-Filled-Conditioned-25-Moisture.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.32 g/cc	1.32 g/cc	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	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	117 MPa	17000 psi	ISO 527-2
Elongation at Break	7.0 %	7.0 %	ISO 527-2
Tensile Modulus	5.70 GPa	827 ksi	ISO 527-2
Flexural Strength	150 MPa	21800 psi	ISO 178

<b>Mechanical Properties</b>	<b>5.70 GPa Metric</b>	<b>827 ksi English</b>	<b>ISO 178 Comments</b>
Izod Impact, Notched (ISO)	10.0 kJ/m <sup>2</sup> @Temperature -30.0 °C	4.76 ft-lb/in <sup>2</sup> @Temperature -22.0 °F	ISO 180
	15.0 kJ/m <sup>2</sup> @Temperature 23.0 °C	7.14 ft-lb/in <sup>2</sup> @Temperature 73.4 °F	ISO 180
Charpy Impact Unnotched	6.60 J/cm <sup>2</sup> @Temperature -30.0 °C	31.4 ft-lb/in <sup>2</sup> @Temperature -22.0 °F	ISO 179/1eU
	6.70 J/cm <sup>2</sup> @Temperature 23.0 °C	31.9 ft-lb/in <sup>2</sup> @Temperature 73.4 °F	ISO 179/1eU
Charpy Impact, Notched	1.00 J/cm <sup>2</sup> @Temperature -30.0 °C	4.76 ft-lb/in <sup>2</sup> @Temperature -22.0 °F	ISO 179/1eU
	1.20 J/cm <sup>2</sup> @Temperature 23.0 °C	5.71 ft-lb/in <sup>2</sup> @Temperature 73.4 °F	ISO 179/1eA

## Contact Songhan Plastic Technology Co.,Ltd.

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