

## Ascend Performance Materials Vydyne® R525H Nat Nylon 66, 25% Glass Reinforced, Conditioned

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

### Material Notes:

Vydyne® R525H Nat 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 Vydyne 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. Vydyne R525H Nat is heat-stabilized to minimize oxidative degradation of the polymer when exposed to elevated temperatures in service. This product provides improved retention of physical properties under exposure to long-term heat. Also, Vydyne R525H Nat has excellent knit-line strength and fatigue resistance, which is essential for cycle testing with anti-freeze solutions. Availability:Asia PacificEuropeNorth AmericaFiller/Reinforcement:Glass Fiber, 25% Filler by WeightAdditive:Heat StabilizerLubricant Features: Antifreeze ResistantFatigue ResistantGasoline ResistanceGood Chemical ResistanceHigh FlowHeat Stabilized Lubricated Solvent ResistantUses: Automotive Under the Hood 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-Vydyne-R525H-Nat-Nylon-66-25-Glass-Reinforced-Conditioned.php](http://www.lookpolymers.com/polymer_Ascend-Performance-Materials-Vydyne-R525H-Nat-Nylon-66-25-Glass-Reinforced-Conditioned.php)

| Physical Properties                | Metric                            | English                             | Comments       |
|------------------------------------|-----------------------------------|-------------------------------------|----------------|
| Density                            | 1.32 g/cc                         | 0.0477 lb/in <sup>3</sup>           | ISO 1183       |
| Water Absorption                   | 0.90 %<br>@Time 86400 sec         | 0.90 %<br>@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<br>@Diameter 2.00 mm | 0.0040 in/in<br>@Diameter 0.0787 in | ISO 294-4      |
| Linear Mold Shrinkage, Transverse  | 0.0090 cm/cm<br>@Diameter 2.00 mm | 0.0090 in/in<br>@Diameter 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           | 5.50 GPa | 798 ksi   | ISO 527-2 |
| Flexural Strength         | 150 MPa  | 21800 psi | ISO 178   |
| Flexural Modulus          | 5.70 GPa | 827 ksi   | ISO 178   |

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

## Contact Songhan Plastic Technology Co.,Ltd.

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