

Ascend Performance Materials Vydyn[®] R530H BK0202 Nylon 66, 30% Glass Reinforced, Conditioned

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

Material Notes:

Vydyn[®] R530H BK0202 is general-purpose, recycled, heat-stabilized, hydrolysis-resistant, 30% glass-fiber reinforced PA66 resin. Available in black, 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 Vydyn 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 R530H BK0202 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, Vydyn R530H BK0202 has excellent knit-line strength and fatigue resistance, which is essential for cycle testing with anti-freeze solutions. Typical Applications/End Uses: Vydyn R530 BK0202 has been used for several under-the-hood automotive applications. The hydrolysis-resistant properties make it an excellent candidate for radiator end tank and heater core applications. Availability:Asia PacificEuropeNorth AmericaFiller/Reinforcement:Glass Fiber, 30% Filler by WeightAdditive:Heat StabilizerLubricant Features: Antifreeze ResistantFatigue ResistantGasoline ResistanceGood Chemical ResistanceHeat StabilizedGood FlowHydrolysis Resistant Lubricated Solvent ResistantUses: Automotive Under the Hood Appearance: BlackForms: PelletsProcessing Method: Injection MoldingInformation provided by Ascend Performance Materials.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Ascend-Performance-Materials-Vydyn-R530H-BK0202-Nylon-66-30-Glass-Reinforced-Conditioned.php

| Physical Properties | Metric | English | Comments |
|------------------------------------|-----------------------------------|-------------------------------------|----------------|
| Density | 1.37 g/cc | 0.0495 lb/in ³ | ISO 1183 |
| Water Absorption | 0.90 % @Time 86400 sec | 0.90 % @Time 24.0 hour | ISO 62 |
| Moisture Absorption at Equilibrium | 1.9 % | 1.9 % | 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 at Break | 135 MPa | 19600 psi | ISO 527-2 |
| Elongation at Break | 5.0 % | 5.0 % | ISO 527-2 |
| Tensile Modulus | 7.40 GPa | 1070 ksi | ISO 527-2 |

| Flexural Strength Mechanical Properties | 190 MPa Metric | 27600 psi English | ISO 178 Comments |
|--|---|---|---------------------|
| Flexural Modulus | 6.00 GPa | 870 ksi | ISO 178 |
| Izod Impact, Notched (ISO) | 11.0 kJ/m ² @Temperature -30.0 °C | 5.23 ft-lb/in ² @Temperature -22.0 °F | ISO 180 |
| | 13.0 kJ/m ² @Temperature 23.0 °C | 6.19 ft-lb/in ² @Temperature 73.4 °F | ISO 180 |
| Charpy Impact Unnotched | 8.00 J/cm ² @Temperature -30.0 °C | 38.1 ft-lb/in ² @Temperature -22.0 °F | ISO 179 |
| | 8.50 J/cm ² @Temperature 23.0 °C | 40.4 ft-lb/in ² @Temperature 73.4 °F | ISO 179 |
| Charpy Impact, Notched | 1.10 J/cm ² @Temperature -30.0 °C | 5.23 ft-lb/in ² @Temperature -22.0 °F | ISO 179 |
| | 1.30 J/cm ² @Temperature 23.0 °C | 6.19 ft-lb/in ² @Temperature 73.4 °F | ISO 179 |

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