

Ascend Performance Materials Vydyne® R860 BK02 Nylon 66, Glass/Mineral Reinforced, Conditioned

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6, Glass/Mineral Reinforced

Material Notes:

Vydyne® R860 BK02 is general-purpose, glass-fiber and mineral-reinforced PA66 resin. Available in black, this product is also lubricated for improved flow and offers superior surface appearance. Glass fiber and mineral-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 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. Typical Applications/End Uses: Vydyne R860 BK02 can be successfully used in a wide range of injection-molding engineering applications. Typical parts include automotive clips, radiator shrouds, fans and mirror brackets; electrical connectors, housings and bobbins; and industrial applications such as gears, bearing shells, covers and housings. Availability:Asia PacificEuropeNorth AmericaFiller/Reinforcement:Glass FiberMineral Additive:Lubricant Features: Good Mold Releasehigh RigidityHigh Strength High Tensile Strength LubricatedOutstanding Surface Finish Uses:Automotive Under the HoodGearsHousingsLawn and Garden EquipmentMetal ReplacementPower/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-R860-BK02-Nylon-66-GlassMineral-Reinforced-Conditioned.php

Physical Properties	Metric	English	Comments
Density	1.47 g/cc	0.0531 lb/in ³	ISO 1183
Water Absorption	0.60 %	0.60 %	ISO 62
	@Time 86400 sec	@Time 24.0 hour	
Moisture Absorption at Equilibrium	2.0 %	2.0 %	50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0025 cm/cm	0.0025 in/in	ISO 294-4
	@Diameter 2.00 mm	@Diameter 0.0787 in	
Linear Mold Shrinkage, Transverse	0.0080 cm/cm	0.0080 in/in	ISO 294-4
	@Diameter 2.00 mm	@Diameter 0.0787 in	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	90.0 MPa	13100 psi	ISO 527-2
Elongation at Break	2.8 %	2.8 %	ISO 527-2
Tensile Modulus	5.90 GPa	856 ksi	ISO 527-2
Flexural Strength	97.0 MPa	14100 psi	ISO 178
Flexural Modulus	4.50 GPa	653 ksi	ISO 178

Mechanical Properties	Metric	English	Comments
Izod Impact, Notched (ISO)	@Temperature -30.0 °C	@Temperature -22.0 °F	ISO 180
	10.0 kJ/m ²	4.76 ft-lb/in ²	ISO 180
Charpy Impact Unnotched	@Temperature 23.0 °C	@Temperature 73.4 °F	ISO 179
	5.60 J/cm ²	26.6 ft-lb/in ²	ISO 179
Charpy Impact, Notched	@Temperature -30.0 °C	@Temperature -22.0 °F	ISO 179
	6.00 J/cm ²	28.6 ft-lb/in ²	ISO 179
Charpy Impact, Notched	@Temperature 23.0 °C	@Temperature 73.4 °F	ISO 179
	0.600 J/cm ²	2.86 ft-lb/in ²	ISO 179
	@Temperature -30.0 °C	@Temperature -22.0 °F	ISO 179
	1.00 J/cm ²	4.76 ft-lb/in ²	ISO 179
	@Temperature 23.0 °C	@Temperature 73.4 °F	ISO 179

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