

Ascend Performance Materials Vydyne® R633 Nylon 66 Copolymer, 33% Glass Filled, Conditioned (2.5% Moisture)

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

Material Notes:

Vydyne® R633 is 33% glass-fiber reinforced, PA66/6 copolymer resin for superior surface appearance. Available in natural, this injection-molding grade resin is lubricated for machine feed and mold release. Vydyne R633 has tensile strength and modulus properties just below aluminum and zinc and can replace these metals in numerous applications due to an excellent balance of properties. Reduction in production costs, energy/consumption, and part weight are key advantages of Vydyne glass-reinforced PA66/6 resins over aluminum and/or zinc die-cast parts. Typical Applications/End Uses: Vydyne R633 has been used for many under-the-hood automotive applications, motor housings for power tools, and garden appliances. These resins have also been used in miscellaneous brackets, gears and clips that require high rigidity and strength. Availability: Asia Pacific Europe North America Additive: Lubricant Features: Copolymer Good Mold Release Good Surface Finish High Rigidity High Strength High Tensile Strength Lubricated Uses: Gears Housings Lawn and Garden Equipment Metal Replacement Power/Other Tools Appearance: Natural Color Forms: Pellets Processing Method: Injection Molding

Order this product through the following link:

http://www.lookpolymers.com/polymer_Ascend-Performance-Materials-Vydyne-R633-Nylon-66-Copolymer-33-Glass-Filled-Conditioned-25-Moisture.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.39 g/cc	1.39 g/cc	ISO 1183
Water Absorption	1.3 % @Time 86400 sec	1.3 % @Time 24.0 hour	ISO 62
Moisture Absorption at Equilibrium	2.3 %	2.3 %	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	130 MPa	18900 psi	ISO 527-2
Elongation at Break	6.0 %	6.0 %	ISO 527-2
Tensile Modulus	8.00 GPa	1160 ksi	ISO 527-2
Flexural Strength	195 MPa	28300 psi	ISO 178
Flexural Modulus	6.80 GPa	986 ksi	ISO 178
Izod Impact, Notched (ISO)	19.0 kJ/m ²	9.04 ft-lb/in ²	ISO 180

Mechanical Properties	@Temperature -30.0 °C Metric	@Temperature -22.0 °F English	Comments
	22.0 kJ/m ²	10.5 ft-lb/in ²	ISO 180
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact Unnotched	9.10 J/cm ²	43.3 ft-lb/in ²	ISO 179
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	9.20 J/cm ²	43.8 ft-lb/in ²	ISO 179
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact, Notched	1.50 J/cm ²	7.14 ft-lb/in ²	ISO 179
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	2.50 J/cm ²	11.9 ft-lb/in ²	ISO 179
	@Temperature 23.0 °C	@Temperature 73.4 °F	

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