

Ascend Performance Materials Vydyn[®] R533T Nylon 66, Translucent, 33% Glass Filled, Conditioned (2.5% Moisture)

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

Material Notes:

The Vydyn[®] R533T is a translucent 33% glass reinforced heat stabilized Nylon 66 product specifically designed for use in power steering reservoirs and other applications where chemical resistance, whiteness and transmittance are required. Vydyn R533T is a member of a wide range of glass reinforced resins supplied by Solutia. Other glass fiber loadings available from Solutia include 13% and 43%. Vydyn R533T resins have 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 Vydyn glass reinforced Nylon 66 resins over aluminum and/or zinc die cast parts.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Ascend-Performance-Materials-Vydyn-R533T-Nylon-66-Translucent-33-Glass-Filled-Conditioned-25-Moisture.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.40 g/cc	1.40 g/cc	ISO 1183
Water Absorption	0.80 % @Time 86400 sec	0.80 % @Time 24.0 hour	ISO 62
Moisture Absorption at Equilibrium	1.8 %	1.8 %	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	150 MPa	21800 psi	ISO 527-2
Elongation at Break	6.0 %	6.0 %	ISO 527-2
Tensile Modulus	7.90 GPa	1150 ksi	ISO 527-2
Flexural Strength	205 MPa	29700 psi	ISO 178
Flexural Modulus	6.50 GPa	943 ksi	ISO 178
Izod Impact, Notched (ISO)	12.0 kJ/m ² @Temperature -30.0 °C	5.71 ft-lb/in ² @Temperature -22.0 °F	ISO 180
	14.0 kJ/m ² @Temperature 23.0 °C	6.66 ft-lb/in ² @Temperature 73.4 °F	ISO 180

Mechanical Properties	Metric	English	Comments
Charpy Impact Unnotched	@Temperature -30.0 °C	@Temperature -22.0 °F	ISO 179
	9.00 J/cm ²	42.8 ft-lb/in ²	ISO 179
Charpy Impact, Notched	@Temperature 23.0 °C	@Temperature 73.4 °F	ISO 179
	1.20 J/cm ²	5.71 ft-lb/in ²	ISO 179
Charpy Impact, Notched	@Temperature -30.0 °C	@Temperature -22.0 °F	ISO 179
	1.40 J/cm ²	6.66 ft-lb/in ²	ISO 179
Charpy Impact, Notched	@Temperature 23.0 °C	@Temperature 73.4 °F	ISO 179
	1.40 J/cm ²	6.66 ft-lb/in ²	ISO 179

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