

Ascend Performance Materials Vydyn® R533T Nylon 66, Translucent, 33% Glass Filled, Dry as Molded

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

Material Notes:

Vydyn® R533T is a translucent 33% glass-reinforced PA66 resin designed specifically for use in power-steering reservoirs and other applications where chemical resistance, whiteness and transmittance are required. Vydyn R533T resin 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 Vydyn glass-reinforced PA66 resins over aluminum and/or zinc die-cast parts. Availability: Asia Pacific Europe North America Filler/Reinforcement: Glass Fiber, 33% Filler by Weight Features: Good Chemical Resistance High Tensile Strength Uses: Automotive Under the Hood Metal Replacement Appearance: Translucent Forms: Pellets Processing Method: Injection Molding

Order this product through the following link:

http://www.lookpolymers.com/polymer_Ascend-Performance-Materials-Vydyn-R533T-Nylon-66-Translucent-33-Glass-Filled-Dry-as-Molded.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	210 MPa	30500 psi	ISO 527
Elongation at Break	4.0 %	4.0 %	ISO 527
Tensile Modulus	10.2 GPa	1480 ksi	ISO 527
Flexural Strength	290 MPa	42100 psi	ISO 178
Flexural Modulus	9.50 GPa	1380 ksi	ISO 178
Poissons Ratio	0.40	0.40	ISO 527
Izod Impact, Notched (ISO)	12.0 kJ/m²	5.71 ft-lb/in²	ISO 180
	NB	NB	

Charpy Impact Unnotched Mechanical Properties	Metric @ Temperature 23.0 °C	English @ Temperature 73.4 °F	ISO 179 Comments
	NB	NB	ISO 179
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Charpy Impact, Notched	0.800 J/cm ²	3.81 ft-lb/in ²	ISO 179
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	1.20 J/cm ²	5.71 ft-lb/in ²	ISO 179
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
CTE, linear	2.20 µm/m-°C	1.22 µin/in-°F	
	@Thickness 2.00 mm, Temperature 23.0 - 55.0 °C	@Thickness 0.0787 in, Temperature 73.4 - 131 °F	ISO 11359-2
CTE, linear, Transverse to Flow	11.0 µm/m-°C	6.11 µin/in-°F	
	@Thickness 2.00 mm, Temperature 23.0 - 55.0 °C	@Thickness 0.0787 in, Temperature 73.4 - 131 °F	ISO 11359-2
Melting Point	264 °C	507 °F	ISO 11357-3
Deflection Temperature at 0.46 MPa (66 psi)	252 °C	486 °F	ISO 75-2/B
Deflection Temperature at 1.8 MPa (264 psi)	235 °C	455 °F	ISO 75-2/A

Optical Properties	Metric	English	Comments
Transmission, Visible	23 %	23 %	ASTM D1003

Processing Properties	Metric	English	Comments
Processing Temperature	285 - 305 °C	545 - 581 °F	Melt
Rear Barrel Temperature	280 - 310 °C	536 - 590 °F	
Middle Barrel Temperature	280 - 310 °C	536 - 590 °F	
Front Barrel Temperature	280 - 310 °C	536 - 590 °F	
Nozzle Temperature	280 - 310 °C	536 - 590 °F	
Mold Temperature	65.0 - 95.0 °C	149 - 203 °F	
Drying Temperature	80.0 °C	176 °F	

Dry Time Processing Properties	4.00 hour Metric	4.00 hour English	Comments
Descriptive Properties			
Suggested Max Regrind		25%	

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