

Ascend Performance Materials Vydyn[®] 66Z Nylon 66, DAM

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, Unreinforced

Material Notes:

Vydyn[®] 66Z is a high-viscosity PA66 resin suitable for injection-molding and extrusion applications. It is available in natural color only. Vydyn 66Z resin offers high strength, rigidity and toughness over a broad range of demanding applications and good fluid resistance to a wide variety of chemicals, solvents and oils. Typical Applications/End Uses: Typical uses include packaging films, monofilaments, bristles, rods, tubing, sheet and extruded profiles. Availability: Asia Pacific Europe North America Features: Gasoline Resistance General Purpose Good Chemical Resistance Good Melt Strength Good Toughness High Rigidity High Strength High Viscosity Oil Resistant Solvent Resistant Uses: Cast Film Film Food Packaging Industrial Applications Monofilaments Rods Sheet Tubing Appearance: Natural Color Forms: Pellets Processing Method: Extrusion and Injection Molding Information provided by Ascend Performance Materials.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Ascend-Performance-Materials-Vydyn-66Z-Nylon-66-DAM.php

Physical Properties	Metric	English	Comments
Density	1.14 g/cc	0.0412 lb/in ³	ISO 1183
Water Absorption	8.5 %	8.5 %	ISO 62
	@Time 86400 sec	@Time 24.0 hour	
Moisture Absorption at Equilibrium	2.5 %	2.5 %	50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.022 cm/cm	0.022 in/in	ISO 294-4
	@Diameter 2.00 mm	@Diameter 0.0787 in	
Linear Mold Shrinkage, Transverse	0.021 cm/cm	0.021 in/in	ISO 294-4
	@Diameter 2.00 mm	@Diameter 0.0787 in	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	55.0 MPa	7980 psi	ISO 527-2
Tensile Strength, Yield	85.0 MPa	12300 psi	ISO 527-2
Elongation at Break	40 %	40 %	ISO 527-2
Elongation at Yield	5.0 %	5.0 %	ISO 527-2
Tensile Modulus	2.85 GPa	413 ksi	ISO 527-2
Flexural Strength	80.0 MPa	11600 psi	ISO 178
Flexural Modulus	2.40 GPa	348 ksi	ISO 178
Poissons Ratio	0.40	0.40	ISO 527-2
	6.00 kJ/m ²	2.86 ft-lb/in ²	

Izod Impact Notched (ISO) Mechanical Properties	Metric @ Temperature -30.0 °C	English @ Temperature -22.0 °F	ISO 180 Comments
	7.00 kJ/m ²	3.33 ft-lb/in ²	ISO 180
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact Unnotched	NB	NB	ISO 179/1eU
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	NB	NB	ISO 179/1eU
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact, Notched	0.600 J/cm ²	2.86 ft-lb/in ²	ISO 179/1eA
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	0.700 J/cm ²	3.33 ft-lb/in ²	ISO 179/1eA
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	10.0 µm/m-°C	5.56 µin/in-°F	ISO 11359-2
	@Thickness 2.00 mm, Temperature 23.0 - 55.0 °C	@Thickness 0.0787 in, Temperature 73.4 - 131 °F	
CTE, linear, Transverse to Flow	10.0 µm/m-°C	5.56 µin/in-°F	ISO 11359-2
	@Thickness 2.00 mm, Temperature 23.0 - 55.0 °C	@Thickness 0.0787 in, Temperature 73.4 - 131 °F	
Melting Point	260 °C	500 °F	ISO 11357-3
Deflection Temperature at 0.46 MPa (66 psi)	200 °C	392 °F	Unannealed; ISO 75-2/B
Deflection Temperature at 1.8 MPa (264 psi)	65.0 °C	149 °F	Unannealed; ISO 75-2/A

Processing Properties	Metric	English	Comments
Zone 1	250 - 295 °C	482 - 563 °F	
Zone 2	250 - 295 °C	482 - 563 °F	
Zone 3	250 - 295 °C	482 - 563 °F	
Zone 4	250 - 295 °C	482 - 563 °F	
Zone 5	250 - 295 °C	482 - 563 °F	
Die Temperature	270 - 295 °C	518 - 563 °F	

Melt Temperature Processing Properties	270 - 295 °C Metric	518 - 563 °F English	Comments
Roll Temperature	20.0 - 80.0 °C	68.0 - 176 °F	Chill Roll Remperature

Descriptive Properties	Value	Comments
Blow Film Bath Temperature	20-80°C	
Melt Pressure	3-17 MPa	

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