

## Ascend Performance Materials Vydne® 66Z Nylon 66, Conditioned

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

### Material Notes:

Vydne® 66Z is a high-viscosity PA66 resin suitable for injection-molding and extrusion applications. It is available in natural color only. Vydne 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-Vydne-66Z-Nylon-66-Conditioned.php](http://www.lookpolymers.com/polymer_Ascend-Performance-Materials-Vydne-66Z-Nylon-66-Conditioned.php)

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

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	70.0 MPa	10200 psi	ISO 527-2
Tensile Strength, Yield	55.0 MPa	7980 psi	ISO 527-2
Elongation at Break	250 %	250 %	ISO 527-2
Elongation at Yield	20 %	20 %	ISO 527-2
Tensile Modulus	1.90 GPa	276 ksi	ISO 527-2
Flexural Strength	20.0 MPa	2900 psi	ISO 178
Flexural Modulus	0.750 GPa	109 ksi	ISO 178
Izod Impact, Notched (ISO)	6.00 kJ/m <sup>2</sup> @Temperature -30.0 °C	2.86 ft-lb/in <sup>2</sup> @Temperature -22.0 °F	ISO 180

Mechanical Properties	Metric $J/m^2$	English $lb/in^2$	Comments
	@Temperature 23.0 °C	@Temperature 73.4 °F	ISO 180
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 <sup>2</sup>	2.86 ft-lb/in <sup>2</sup>	ISO 179/1eA
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	3.00 J/cm <sup>2</sup>	14.3 ft-lb/in <sup>2</sup>	ISO 179/1eA
	@Temperature 23.0 °C	@Temperature 73.4 °F	

## Contact Songhan Plastic Technology Co.,Ltd.

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