

Ascend Performance Materials Vydyn[®] 75HF Nylon 66/6, Heat Stabilized, DAM

Category : Polymer , Thermoplastic , Nylon , Nylon 6/66 , Nylon 66/6, Unreinforced

Material Notes:

Vydyn[®] 75HF is a medium-high-viscosity, heat-stabilized PA66/6 copolymer resin designed for extrusion applications. It is available in natural color only. Vydyn 75HF resin offers a well-balanced combination of engineering properties characterized by high melt point; high strength and rigidity; good toughness; soft hand and good chemical resistance. This resin is especially useful in applications where high elongation, good clarity in thin sections and soft feel are required. Typical Applications/End Uses: Typical uses include packaging films, monofilaments, bristles, and extruded profiles. Availability: Asia Pacific Europe North America Additives: Heat Stabilizer Features: Gasoline Resistance General Purpose Good Chemical Resistance Good Toughness Heat Stabilized High Melt Stability High Molecular Weight High Rigidity High Strength Medium Viscosity Oil Resistant Solvent Resistant Uses: Film Industrial Applications Monofilaments Profiles Rods Sheet Tubing Vacuum Bagging Film Appearance: Natural Color Forms: Pellets Processing Method: Extrusion Information provided by Ascend Performance Materials.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Ascend-Performance-Materials-Vydyn-75HF-Nylon-666-Heat-Stabilized-DAM.php

Physical Properties	Metric	English	Comments
Density	1.14 g/cc	0.0412 lb/in ³	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

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	50.0 MPa	7250 psi	ISO 527-2
Tensile Strength, Yield	80.0 MPa	11600 psi	ISO 527-2
Elongation at Break	>= 200 %	>= 200 %	ISO 527-2
Elongation at Yield	5.0 %	5.0 %	ISO 527-2
Tensile Modulus	2.70 GPa	392 ksi	ISO 527-2
Flexural Strength	70.0 MPa	10200 psi	ISO 178
Flexural Modulus	2.20 GPa	319 ksi	ISO 178
Poissons Ratio	0.40	0.40	ISO 527-2
Izod Impact, Notched (ISO)	4.00 kJ/m ² @Temperature 23.0 °C	1.90 ft-lb/in ² @Temperature 73.4 °F	ISO 180

Mechanical Properties	Metric	English	Comments
	@Temperature -30.0 °C	@Temperature -22.0 °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	0.400 J/cm ²	1.90 ft-lb/in ²	ISO 179/1eA
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	0.800 J/cm ²	3.81 ft-lb/in ²	ISO 179/1eA
	@Temperature -30.0 °C	@Temperature -22.0 °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	220 °C	428 °F	ISO 11357-3
Deflection Temperature at 0.46 MPa (66 psi)	245 °C	473 °F	Unannealed; ISO 75-2/B
Deflection Temperature at 1.8 MPa (264 psi)	125 °C	257 °F	Unannealed; ISO 75-2/A

Processing Properties	Metric	English	Comments
Zone 1	230 - 275 °C	446 - 527 °F	
Zone 2	230 - 275 °C	446 - 527 °F	
Zone 3	230 - 275 °C	446 - 527 °F	
Zone 4	230 - 275 °C	446 - 527 °F	
Zone 5	230 - 275 °C	446 - 527 °F	
Die Temperature	240 °C	464 °F	
Melt Temperature	235 - 275 °C	455 - 527 °F	

Roll Temperature Processing Properties	20.0 - 80.0 °C Metric	68.0 - 176 °F English	Chill Roll Temperature Comments
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Descriptive Properties	Value	Comments
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Blow Film Bath Temperature	20-80°C	
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Melt Pressure	3-17 MPa	
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