

Ascend Performance Materials Vydyn[®] 66J Nylon 66, General Purpose, high viscosity, DAM

Category : Polymer , Thermoplastic , Nylon , Nylon 66

Material Notes:

Vydyn[®] 66J is a high-viscosity, heat-stabilized PA66 resin suitable for injection-molding and extrusion applications. It is available in natural color only. Vydyn 66J 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 Additive: Heat Stabilizer Features: Gasoline Resistance General Purpose Good Chemical Resistance Good Toughness Heat Stabilized High Rigidity High Strength High Viscosity Kosher Approved Oil Resistant Solvent Resistant Uses: Film Industrial Applications Monofilaments Profiles Rods Sheet Tubing Appearance: Natural Color Forms: Pellets Processing Method: Extrusion Information provided by Ascend

Order this product through the following link:

http://www.lookpolymers.com/polymer_Ascend-Performance-Materials-Vydyn-66J-Nylon-66-General-Purpose-high-viscosity-DAM.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.14 g/cc	1.14 g/cc	ISO 1183
Water Absorption	8.5 %	8.5 %	24 hrs; ISO 62
Moisture Absorption at Equilibrium	2.5 %	2.5 %	Equilibrium at 50%rh; ISO 62
Linear Mold Shrinkage	0.021 cm/cm @Thickness 2.00 mm	0.021 in/in @Thickness 0.0787 in	ISO 294-4
Linear Mold Shrinkage, Transverse	0.020 cm/cm @Thickness 2.00 mm	0.020 in/in @Thickness 0.0787 in	ISO 294-4

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	65.0 MPa	9430 psi	ISO 527-2
Tensile Strength, Yield	85.0 MPa	12300 psi	ISO 527-2
Elongation at Break	>= 25 %	>= 25 %	ISO 527-2
Elongation at Yield	5.0 %	5.0 %	ISO 527-2
Tensile Modulus	2.80 GPa	406 ksi	ISO 527-2
Flexural Strength	90.0 MPa	13100 psi	ISO 178
Flexural Modulus	3.10 GPa	450 ksi	ISO 178
Poissons Ratio	0.40	0.40	ISO 527-2

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

Thermal Properties	Metric	English	Comments
CTE, linear	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 3146
Deflection Temperature at 0.46 MPa (66 psi)	195 °C	383 °F	ISO 75-2/B
Deflection Temperature at 1.8 MPa (264 psi)	70.0 °C	158 °F	ISO 75-2/A
UL RTI, Electrical	140 °C	284 °F	UL 746B
	@Thickness 0.710 mm	@Thickness 0.0280 in	
	140 °C	284 °F	UL 746B
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	140 °C	284 °F	UL 746B
	@Thickness 3.00 mm	@Thickness 0.118 in	
UL RTI, Mechanical with Impact	95.0 °C	203 °F	UL 746B
	@Thickness 0.710 mm	@Thickness 0.0280 in	
	110 °C	230 °F	

Thermal Properties	Metric	English	UL 746B Comments
	110 °C @Thickness 1.50 mm	230 °F @Thickness 0.0591 in	UL 746B
	@Thickness 3.00 mm	@Thickness 0.118 in	
UL RTI, Mechanical without Impact	115 °C @Thickness 0.710 mm	239 °F @Thickness 0.0280 in	UL 746B
	125 °C @Thickness 1.50 mm	257 °F @Thickness 0.0591 in	UL 746B
	125 °C @Thickness 3.00 mm	257 °F @Thickness 0.118 in	UL 746B
Flammability, UL94	HB @Thickness 0.710 - 3.00 mm	HB @Thickness 0.0280 - 0.118 in	
Glow Wire Test	700 °C @Thickness 0.710 mm	1290 °F @Thickness 0.0280 in	Ignition Temp; IEC 60695-2-12
	700 °C @Thickness 1.50 mm	1290 °F @Thickness 0.0591 in	Ignition Temp; IEC 60695-2-12
	700 °C @Thickness 3.00 mm	1290 °F @Thickness 0.118 in	Ignition Temp; IEC 60695-2-12
	850 °C @Thickness 0.710 mm	1560 °F @Thickness 0.0280 in	Flammability Index; IEC 60695-2-12
	850 °C @Thickness 1.50 mm	1560 °F @Thickness 0.0591 in	Flammability Index; IEC 60695-2-12
	950 °C @Thickness 3.00 mm	1740 °F @Thickness 0.118 in	Flammability Index; IEC 60695-2-12

Electrical Properties	Metric	English	Comments
Arc Resistance	6.0 - 119 sec @Thickness 3.00 mm	6.0 - 119 sec @Thickness 0.118 in	ASTM D496
Comparative Tracking Index	400 - 599 V @Thickness 3.00 mm	400 - 599 V @Thickness 0.118 in	IEC 60112
Hot Wire Ignition, HWI	7.0 - 14 sec @Thickness 0.710 mm	7.0 - 14 sec @Thickness 0.0280 in	UL 746A

Electrical Properties	Metric	English	Comments
	7.0 - 14 sec	7.0 - 14 sec	UL 746A
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	7.0 - 14 sec	7.0 - 14 sec	UL 746A
	@Thickness 3.00 mm	@Thickness 0.118 in	
	>= 120 sec	>= 120 sec	UL 746B
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	>= 120 sec	>= 120 sec	UL 746B
	@Thickness 3.00 mm	@Thickness 0.118 in	
High Amp Arc Ignition, HAI	>= 120 arcs	>= 120 arcs	UL 746A
	@Thickness 0.710 mm	@Thickness 0.0280 in	
High Voltage Arc-Tracking Rate, HVTR	>= 120 mm/min	>= 4.72 in/min	UL 746B

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	270 - 295 °C	518 - 563 °F	
Back Pressure	3.00 - 17.0 MPa	435 - 2470 psi	

Descriptive Properties	Value	Comments
Blown Film Bath Temperature	20-80°C	
Chill Roll Temperature (Cast Film)	20-80°C	

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