Vydyne[®] 65B polyamide 66



Vydyne 65B is a medium-viscosity PA66 resin suitable for injection-molding, extrusion and compounding applications. It is available in natural color only. Vydyne 65B 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 and sheet.

General					
Material Status	Commercial: Active				
Availability	Asia Pacific	• Europe	North America		
Features	General PurposeGood Chemical ResistanceGood Toughness	High RigidityHigh StrengthMedium-high Viscosity	Oil ResistantSolvent Resistant		
Uses	Industrial ApplicationsMonofilaments	 Profiles Rods	SheetTubing		
Agency Ratings	ASTM D 4066 PA0113ASTM D 6779 PA0113	FDA 21 CFR 177.1500FED L-P-410A	• MIL M-20693B		
RoHS Compliance	RoHS Compliant				
Appearance	Natural Color				
Forms	Pellets				
Processing Method	Extrusion	 Injection Molding 			
Physical	Dry	Conditioned	Unit	Test Method	
Density	1.14		g/cm³	ISO 1183	
Molding Shrinkage				ISO 294-4	
Across Flow : 73°F, 0.0787 in	1.9		%		
Flow : 73°F, 0.0787 in	2.0		%		
Water Absorption (Saturation, 73°F)	8.5		%	ISO 62	
Water Absorption (Equilibrium, 73°F, 50	% RH) 2.5		%	ISO 62	
Mechanical	Dry	Conditioned	Unit	Test Method	
Tensile Modulus (73°F)	450000	218000	psi	ISO 527-2	
Tensile Stress (Yield, 73°F)	12000	7980	psi	ISO 527-2	
Tensile Stress (Break, 73°F)	7250	9430	psi	ISO 527-2	
Tensile Strain (Yield, 73°F)	5.5	20	%	ISO 527-2	
Nominal Tensile Strain at Break (73°F)	> 25	> 200	%	ISO 527-2	
Flexural Modulus (73°F)	406000	102000	psi	ISO 178	
Flexural Strength (73°F)	11600	2900	psi	ISO 178	
Poisson's Ratio	0.40			ISO 527-2	

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Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-22°F	2.9	3.3	ft·lb/in ²	
73°F	2.9	19	ft·lb/in ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-22°F	No Break	No Break		
73°F	No Break	No Break		
Notched Izod Impact Strength				ISO 180
-22°F	2.9	3.3	ft·lb/in ²	
73°F	2.9	19	ft·lb/in ²	
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				ISO 75-2/B
66 psi, Unannealed	383		°F	
Heat Deflection Temperature				ISO 75-2/A
264 psi, Unannealed	149		°F	
Melting Temperature	500		°F	ISO 11357-3
CLTE - Flow (73 to 131°F, 0.0787 in)	5.6E-5		in/in/°F	ISO 11359-2
CLTE - Transverse (73 to 131°F, 0.0787 in)	5.6E-5		in/in/°F	ISO 11359-2
Extrusion		Dry Unit		
Cylinder Zone 1 Temp.		482 to 563 °F		
Cylinder Zone 2 Temp.		482 to 563 °F		
Cylinder Zone 3 Temp.		482 to 563 °F		
Cylinder Zone 4 Temp.		482 to 563 °F		
Cylinder Zone 5 Temp.		482 to 563 °F		
Melt Temperature		518 to 563 °F		
Die Temperature		518 to 563 °F		
Extrusion Notes				

Recommended Extrusion Conditions:

Melt Point: 260°C Melt Pressure: 3 to 17 MPa Blow Film Bath Temperature: 20°C to 80°C Chill Roll Temperature (Cast Film): 20°C to 80°C Screw Design: General Purpose or Barrier

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Notes

Typical properties: these are not to be construed as specifications.

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