Vydyne® 67B

Polyamide 66

Ascend Performance Materials Operations LLC

Message:

Vydyne 67B is a very-high-viscosity PA66 resin suitable for injection-molding and extrusion applications. It is available in natural color only. Vydyne 67B 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.

General Information	
Features	Rigidity, high
	High strength
	High melt stability
	Solvent resistance
	Good chemical resistance
	Gasoline resistance
	Oil resistance
	Good toughness
	General
	Viscosity, High
Uses	Bar
	Films
	monofilament
	Industrial application
	Pipe fittings
	Sheet
	Profile
Agency Ratings	ASTM D 4066 PA0114
	ASTM D 6779 PA0114
	FDA 21 CFR 177.1500
RoHS Compliance	RoHS compliance
Appearance	Natural color
Forms	Particle
Processing Method	Extrusion

Physical	Dry	Conditioned	Unit	Test Method
Density	1.14	--	g/cm³	ISO 1183
Molding Shrinkage				ISO 294-4

Vertical flow direction: 23°C, 2.00mm	2.1	--	%	ISO 294-4
Flow direction: 23°C, 2.00mm	2.2	--	%	ISO 294-4
Water Absorption				ISO 62
Saturated, 23°C	8.5	--	%	ISO 62
Equilibrium, 23°C, 50% RH	2.5	--	%	ISO 62
Mechanical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Tensile Modulus (23°C)	2850	1900	MPa	ISO 527-2
Tensile Stress				ISO 527-2
Yield, 23°C	85.0	55.0	MPa	ISO 527-2
Fracture, 23°C	55.0	70.0	MPa	ISO 527-2
Tensile Strain (Yield, 23°C)	5.0	20	%	ISO 527-2
Nominal Tensile Strain at Break (23°C)	40	250	%	ISO 527-2
Flexural Modulus (23°C)	2400	750	MPa	ISO 178
Flexural Strength (23°C)	80.0	20.0	MPa	ISO 178
Poisson's Ratio	0.40	--		ISO 527-2
Impact	**Dry**	**Conditioned**	**Unit**	**Test Method**
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	6.0	6.0	kJ/m^2	ISO 179/1eA
23°C	7.0	30	kJ/m^2	ISO 179/1eA
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	No Break	No Break		ISO 179/1eU
23°C	No Break	No Break		ISO 179/1eU
Notched Izod Impact				ISO 180
-30°C	6.0	6.0	kJ/m^2	ISO 180
23°C	7.0	30	kJ/m^2	ISO 180
Thermal	**Dry**	**Conditioned**	**Unit**	**Test Method**
Heat Deflection Temperature				
0.45 MPa, not annealed	200	--	°C	ISO 75-2/B
1.8 MPa, not annealed	65.0	--	°C	ISO 75-2/A
Melting Temperature	260	--	°C	ISO 11357-3
Linear thermal expansion coefficient				ISO 11359-2
Flow: 23 to 55°C, 2.00mm	1.0E-4	--	cm/cm/°C	ISO 11359-2
Lateral: 23 to 55°C, 2.00mm	1.0E-4	--	cm/cm/°C	ISO 11359-2
Extrusion	**Dry**	**Unit**		
Cylinder Zone 1 Temp.	250 - 295		°C	

Cylinder Zone 2 Temp.	250 - 295	°C
Cylinder Zone 3 Temp.	250 - 295	°C
Cylinder Zone 4 Temp.	250 - 295	°C
Cylinder Zone 5 Temp.	250 - 295	°C
Melt Temperature	270 - 295	°C
Die Temperature	270 - 295	°C

Extrusion instructions

Recommended Extrusion Conditions:Melt Point: 260°CMelt Pressure: 3 to 17 MPaBlow Film Bath Temperature: 20°C to 80°CChill Roll Temperature (Cast Film): 20°C to 80°CScrew Design: General Purpose or Barrier

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