

Vydyne® 66H NT0694

Polyamide 66

Ascend Performance Materials Operations LLC

Message:

Vydyne 66H NT0694 is a high-viscosity, heat-stabilized PA66 resin with ideal shear-thinning behavior for injection-molding and extrusion applications. It offers a combination of high strength, rigidity, toughness, abrasion resistance, chemical resistance and thermal stability, making it appealing for a broad range of applications. It is available in natural color only.

General Information				
Additive		heat stabilizer		
Features	Rigidity, high			
	High strength			
	High melt stability			
	Solvent resistance			
	Good chemical resistance			
	Gasoline resistance			
	Oil resistance			
	Thermal Stability			
	Good toughness			
	General			
Viscosity, High				
Uses	Films			
	monofilament			
	Sheet			
	Application in Automobile Field			
	Profile			
Agency Ratings	ASTM D 4066 PA0114			
	ASTM D 6779 PA0114			
	EC 1935/2004			
	EU 2023/2006			
	FDA 21 CFR 177.1500			
	Europe 10/1/2011 12:00:00 AM			
RoHS Compliance		RoHS compliance		
Appearance		Natural color		
Forms		Particle		
Processing Method		Extrusion		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.14	--	g/cm ³	ISO 1183

Molding Shrinkage				ISO 294-4
Lateral flow: 23°C, 2.00mm	2.1	--	%	ISO 294-4
Traffic: 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)	3000	900	MPa	ISO 178
Flexural Stress (23°C)	80.0	30.0	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
Electrical	Dry	Conditioned	Unit	Test Method

Volume Resistivity (0.750 mm)	1.0E+14	--	ohms·cm	IEC 60093
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°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 We recommend drying at 170°F for 4 hours at -10 to -15°C (5 to 15°F) dew point.

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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

