

Vydyne® 75HF

Polyamide 66/6 Copolymer

Ascend Performance Materials Operations LLC

Message:

Vydyne 75HF is a medium-high-viscosity, heat-stabilized PA66/6 copolymer resin designed for extrusion applications. This product is available in natural only. It 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.

General Information				
Additive	heat stabilizer			
Features	Rigidity, high			
	High molecular weight			
	High strength			
	High melt stability			
	Solvent resistance			
	Good chemical resistance			
	Gasoline resistance			
	Oil resistance			
	Thermal Stability			
	Good toughness			
	General			
	Medium viscosity			
Uses	Bar			
	Films			
	monofilament			
	Industrial application			
	Pipe fittings			
	Sheet			
	Profile			
	Vacuum bag film			
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
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)	2700	500	MPa	ISO 527-2
Tensile Stress				ISO 527-2
Yield, 23°C	80.0	25.0	MPa	ISO 527-2
Fracture, 23°C	50.0	40.0	MPa	ISO 527-2
Tensile Strain (Yield, 23°C)	5.0	30	%	ISO 527-2
Nominal Tensile Strain at Break (23°C)	> 200	> 200	%	ISO 527-2
Flexural Modulus (23°C)	2200	250	MPa	ISO 178
Flexural Strength (23°C)	70.0	8.00	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	8.0	6.0	kJ/m ²	ISO 179/1eA
23°C	4.0 kJ/m ²	No Break		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	8.0	6.0	kJ/m ²	ISO 180
23°C	4.0 kJ/m ²	No Break		ISO 180
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, not annealed	125	--	°C	ISO 75-2/B
1.8 MPa, not annealed	45.0	--	°C	ISO 75-2/A
Melting Temperature	220	--	°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.	230 - 275		°C	
Cylinder Zone 2 Temp.	230 - 275		°C	
Cylinder Zone 3 Temp.	230 - 275		°C	
Cylinder Zone 4 Temp.	230 - 275		°C	
Cylinder Zone 5 Temp.	230 - 275		°C	
Melt Temperature	235 - 275		°C	

Die Temperature	240	°C
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Extrusion instructions

Recommended Extrusion Conditions:Melt Point: 220°C Melt Pressure: 3 to 17 MPa Blow Film Bath Temperature: 5°C to 20°C Chill Roll Temperature (Cast Film): 20°C to 40°C (clear), 80°C to 100°C (high stable) Screw Design: General Purpose or Barrier

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