

# Vydyne® 75HB NT0679

Polyamide 66/6 Copolymer

Ascend Performance Materials Operations LLC

Message:

Vydyne 75HB NT0679 is a PA66-based copolymer that features high melt strength with ideal shear thinning behavior, high tensile strength, ductility, and improved clarity, making it ideal for blown- and cast-film applications. Having a melt temperature between PA6 and PA66, it is a preferred material of choice compared to physical blends of PA6 and PA66 due to the ability to process at lower temperatures and produce a homogenous film, resulting in uniform melting behavior, high gloss and clarity. Further, 75HB also allows for improved process flexibility due to its slower crystallization rate versus PA66 homopolymers.

General Information	
Features	Gasoline Resistance
	General Purpose
	Good Chemical Resistance
	Good Color Stability
	Oil Resistant
	Solvent Resistant
Uses	Compounding
	General Purpose
Agency Ratings	ASTM D 4066 PA0111
	ASTM D 6779 PA0111
	EC 1935/2004
	EU 10/2011
	EU 2023/2006
	FDA 21 CFR 177.1500
RoHS Compliance	RoHS Compliant
Appearance	Natural Color
Forms	Pellets
Processing Method	Compounding
	Compounding Extrusion

Physical	Nominal Value	Unit	Test Method
Density	1.14	g/cm <sup>3</sup>	ISO 1183
Viscosity Number (H2SO4 (Sulphuric Acid))	254 to 269	cm <sup>3</sup> /g	ISO 307
Bulk Density	674	g/l	ASTM D1895
Moisture Content	0.10	%	ASTM D6869
Relative Viscosity <sup>1</sup>	165 to 195		ASTM D789
Mechanical	Nominal Value	Unit	Test Method

Tensile Strength			
Yield	78.0	MPa	ISO 527-2
Ultimate <sup>2</sup>	104	MPa	ASTM D882
Ultimate <sup>3</sup>	121	MPa	ASTM D882
Tensile Elongation (Break)	170	%	ISO 527-2
Flexural Strength	84.0	MPa	ISO 178
Films	Nominal Value	Unit	Test Method
Secant Modulus			ASTM D882
1% Secant, MD : Cast Film	601	MPa	
1% Secant, TD : Cast Film	558	MPa	
Tensile Stress			ASTM D882
Yield, Cast Film <sup>4</sup>	30.7	MPa	
Yield, Cast Film <sup>5</sup>	31.2	MPa	
MD : Break,Cast Film	121	MPa	
TD : Break,Cast Film	101	MPa	
Tensile Elongation			ASTM D882
Yield, Cast Film <sup>6</sup>	6.4	%	
Yield, Cast Film <sup>7</sup>	6.5	%	
MD : Break,Cast Film	390	%	
TD : Break,Cast Film	480	%	
Dart Drop Impact <sup>8</sup> (Cast Film)	> 2000	g	ASTM D1922
Elmendorf Tear Strength			ASTM D1709
MD : Cast Film	51	g	
TD : Cast Film	110	g	
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength (23°C)	7.0	kJ/m <sup>2</sup>	ISO 180
Thermal	Nominal Value	Unit	Test Method
Melting Temperature	240 to 248	°C	ISO 11357-3
NOTE			
1.	Formic acid		
2.	(TD)		
3.	(MD)		
4.	(TD)		
5.	(MD)		
6.	(TD)		
7.	(MD)		
8.	(f50)		

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# 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

