

HiDura™ PTR 75HB NT0679

Ascend Performance Materials Operations LLC - Polyamide 66/6 Copolymer

General Information

Product Description

HiDura PTR 75HB NT0679 is a high-viscosity, heat-stabilized polyamide 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 flexibly, toughness and good chemical resistance. Specifically, its reduced crystallization, high melt point and heat stabilization make it a great solution for films being used in cooking or autoclave curing applications.

General

Material Status	• Commercial: Active		
Availability	• Asia Pacific	• Europe	• North America
Features	• Chemical Resistant	• High Melt Stability	• High Strength
	• Good Toughness	• High Rigidity	• Medium-high Viscosity
Appearance	• Natural Color		
Forms	• Pellets		
Processing Method	• Extrusion		
Resin ID	• PA66/6		

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	1.13	g/cm ³	ISO 1183
Water Absorption (Saturation, 73°F)	11	%	ISO 62
Water Absorption (Equilibrium, 73°F, 50% RH)	2.4	%	ISO 62
Relative Viscosity			
-- 2	4.10		ISO 307
-- 3	> 165		ASTM D789
Moisture Content	< 0.10	%	ASTM D6869
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield, 73°F)	11300	psi	ISO 527-2
Tensile Strain (Break, 73°F)	170	%	ISO 527-2
Flexural Stress (73°F)	12200	psi	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (73°F)	3.3	ft-lb/in ²	ISO 179/1eA
Thermal	Nominal Value	Unit	Test Method
Melting Temperature	469	°F	ISO 11357-3

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	158 to 176	°F
Drying Time	4.0	hr
Extrusion	Nominal Value	Unit
Cylinder Zone 1 Temp.	527 to 554	°F
Cylinder Zone 2 Temp.	527 to 554	°F
Cylinder Zone 3 Temp.	518 to 545	°F
Cylinder Zone 4 Temp.	500 to 527	°F
Cylinder Zone 5 Temp.	491 to 518	°F
Melt Temperature	518 to 554	°F
Die Temperature	518 to 554	°F

