

HiDura™ PTR 75HF

Ascend Performance Materials Operations LLC - *Polyamide 66/6 Copolymer*

General Information

Product Description

HiDura PTR 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 flexibility, toughness, and good chemical resistance.

General

Material Status	• Commercial: Active		
Availability	• Asia Pacific	• Europe	• North America
Additive	• Heat Stabilizer		
Features	• Chemical Resistant	• High Elongation	• High Strength
	• Good Toughness	• High Melt Stability	
	• Heat Stabilized	• High Rigidity	
Agency Ratings	• EC 1935/2004	• EU 10/2011	• EU 2023/2006
Appearance	• Natural Color		
Forms	• Pellets		
Processing Method	• Blow Molding	• Extrusion	
	• Casting	• Profile Extrusion	
Resin ID	• PA66/6		

Properties ¹

Physical	Dry	Conditioned	Unit	Test Method
Density	1.12	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow : 73°F, 0.0787 in	1.4	--	%	
Flow : 73°F, 0.0787 in	1.4	--	%	
Water Absorption (24 hr, 73°F)	3.2	--	%	ISO 62
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus (73°F)	334000	90900	psi	ISO 527-1
Tensile Stress (Yield, 73°F)	10200	9280	psi	ISO 527-2
Tensile Strain (Break, 73°F)	210	390	%	ISO 527-2
Flexural Modulus (73°F)	348000	69000	psi	ISO 178
Flexural Stress (73°F)	10700	2030	psi	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-40°F	1.5	1.3	ft·lb/in ²	
-22°F	1.6	1.2	ft·lb/in ²	
73°F	1.8	20	ft·lb/in ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-40°F	No Break	85 ft·lb/in ²		
-22°F	No Break	85 ft·lb/in ²		
73°F	No Break	78 ft·lb/in ²		
Notched Izod Impact Strength				ISO 180/1A
-40°F	2.0	2.8	ft·lb/in ²	
-22°F	1.9	2.3	ft·lb/in ²	
73°F	2.0	8.1	ft·lb/in ²	
Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	156	248	°F	ISO 75-2/B
Deflection Temperature Under Load (264 psi, Unannealed)	117	160	°F	ISO 75-2/A
Melting Temperature	441	--	°F	ISO 11357-3

