

HiDura™ PTR 75HF

copolyamide 66/6



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				
Regional Availability	• North America	• Europe	• Asia Pacific	
Additive	• Heat Stabilizer			
Features	• Chemical Resistant	• Good Toughness	• High Elongation	
	• High Melt Stability	• High Rigidity	• High Strength	
Agency Rating	• EC, 1935/2004	• EU, 10/2011	• EU, 2023/2006	
Certifications	• Food approval 10/2011			
Appearance	• Natural Color			
Forms	• Pellets			
Processing Method	• Blow Molding	• Casting	• Other Extrusion	
	• Profile Extrusion			
Physical	dry	cond.	Unit	Test Standard
Density	1.12	-	g/cm³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow : 23°C, 2.00 mm	1.4	*	%	
Flow : 23°C, 2.00 mm	1.4	*	%	
Water Absorption, 23°C, 24 hr	3.16	*	%	ISO 62
Mechanical	dry	cond.	Unit	Test Standard
Tensile Modulus (23°C)	2300	627	MPa	ISO 527-2
Tensile Stress (Yield, 23°C)	70	64	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	212	386	%	ISO 527-2
Flexural Modulus (23°C)	2400	476	MPa	ISO 178
Flexural Strength (23°C)	74	14	MPa	ISO 178
Impact	dry	cond.	Unit	Test Standard
Charpy Notched Impact Strength				ISO 179/1eA
+23°C	3.8	42	kJ/m²	
-30°C	3.3	2.6	kJ/m²	
-40°C	3.2	2.7	kJ/m²	
Charpy Unnotched Impact Strength				ISO 179/1eU
+23°C	N	164	kJ/m²	
-30°C	N	179	kJ/m²	

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-40°C	N	178	kJ/m²	
Notched Izod Impact Strength				ISO 180/1A
+23°C	4.3	17	kJ/m²	
-30°C	4	4.8	kJ/m²	
-40°C	4.2	5.8	kJ/m²	

Thermal	dry	cond.	Unit	Test Standard
Heat Deflection Temperature				ISO 75-2/A
1.80 MPa, Unannealed	47	71	°C	
0.45 MPa, Unannealed	69	120	°C	
Melting Temperature	227	*	°C	ISO 11357-3

