

HiDura™ PTR 833C

copolyamide 66/6

HiDura PTR 833C is a polyamide copolymer that features high strength, flexibility, and toughness. It offers melt viscosity and crystallization rate suitable for cast film, mono- and biaxially oriented film, and some blown film applications.

General

Regional Availability	• North America	• Europe	• Asia Pacific
Additive	• Lubricant		
Features	• Chemical Resistant • High Toughness • Puncture Resistant	• High Melt Stability • Lubricated	• High Strength • Medium-High Viscosity
Agency Rating	• EC, 1935/2004	• EU, 10/2011	• EU, 2023/2006

Physical	dry	cond.	Unit	Test Standard
Density	1.12	-	g/cm ³	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				ISO 62
23°C, 24 hr	3.2	*	%	
Equilibrium, 23°C, 50% RH	2.7	*	%	
Water Absorption, Saturation, 23°C	11		%	ISO 62
Relative Viscosity, Sulphuric Acid	3.9		-	ISO 307
Moisture Content	≤ 0.1		%	ASTM D 6869

Mechanical	dry	cond.	Unit	Test Standard
Tensile Modulus (23°C)	2300	863	MPa	ISO 527-2
Tensile Stress (Yield, 23°C)	73	65	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	259	342	%	ISO 527-2
Flexural Modulus (23°C)	2300	607	MPa	ISO 178
Flexural Strength (23°C)	70	17	MPa	ISO 178

Impact	dry	cond.	Unit	Test Standard
Charpy Notched Impact Strength				ISO 179/1eA
+23°C	4.2	18	kJ/m ²	
-30°C	3.6	2.7	kJ/m ²	
-40°C	3.3	2.8	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
+23°C	N	N	kJ/m ²	
-30°C	N	N	kJ/m ²	

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-40°C	N	N	kJ/m²	
Notched Izod Impact Strength				ISO 180/1A
+23°C	4.7	11	kJ/m²	
-30°C	4.6	4.4	kJ/m²	
-40°C	4.6	5.3	kJ/m²	

Thermal	dry	cond.	Unit	Test Standard
Heat Deflection Temperature				ISO 75-2/A
1.80 MPa, Unannealed	50	103	°C	
0.45 MPa, Unannealed	116	138	°C	
Melting Temperature	232	*	°C	ISO 11357-3

Electrical	dry	cond.	Unit	Test Standard
Dielectric Strength (1.00 mm)	28	30	kV/mm	IEC 60243

Extrusion	Value	Unit
Cylinder Zone 1 Temp	265 - 280	°C
Cylinder Zone 2 Temp	265 - 280	°C
Cylinder Zone 3 Temp	260 - 275	°C
Cylinder Zone 4 Temp	250 - 270	°C
Cylinder Zone 5 Temp	245 - 265	°C
Melt temperature	260 - 280	°C
Die temperature	260 - 280	°C

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