

HiDura™ PTR 842A NT0733

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

General Information

Product Description

HiDura PTR 842A NT0733 is a high-viscosity polyamide copolymer resin designed for extrusion applications. This product is available in natural only. It offers a well-balanced combination of properties characterized by high melt point, high strength, flexibility, toughness, and good chemical resistance. Its reduced crystallization rate vs PA66 combined and high melt point make it an ideal solution for film applications requiring good process-ability and high heat resistance.

General

Material Status	• Commercial: Active		
Availability	• Asia Pacific	• Europe	• North America
Features	• Chemical Resistant • High Melt Stability • High Melt Strength	• High Strength • High Toughness • High Viscosity	• Puncture Resistant
Agency Ratings	• ASTM D4066 • ASTM D6779	• EC 1935/2004 • EU 10/2011	• EU 2023/2006 • FDA 21 CFR 177.1500
Appearance	• Natural Color		
Forms	• Pellets		
Resin ID	• PA66/6		

Properties ¹

Physical	Dry	Conditioned	Unit	Test Method
Density	1.13	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow : 73°F, 0.0787 in	1.7	--	%	
Flow : 73°F, 0.0787 in	1.8	--	%	
Water Absorption (24 hr, 73°F)	2.2	--	%	ISO 62
Water Absorption (Saturation, 73°F)	10	--	%	ISO 62
Water Absorption (Equilibrium, 73°F, 50% RH)	2.3	--	%	ISO 62
Relative Viscosity ²	4.10	--		ISO 307
Moisture Content	< 0.10	--	%	ASTM D6869
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus (73°F)	392000	174000	psi	ISO 527-1
Tensile Stress (Yield, 73°F)	11600	10000	psi	ISO 527-2
Tensile Strain (Break, 73°F)	160	280	%	ISO 527-2
Flexural Modulus (73°F)	392000	134000	psi	ISO 178
Flexural Stress (73°F)	12300	--	psi	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-40°F	2.4	2.2	ft·lb/in ²	
-22°F	2.3	2.1	ft·lb/in ²	
73°F	2.6	4.8	ft·lb/in ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-40°F	No Break	No Break		
-22°F	No Break	No Break		
73°F	No Break	No Break		
Notched Izod Impact Strength				ISO 180/1A
-40°F	2.6	2.6	ft·lb/in ²	
-22°F	2.7	3.0	ft·lb/in ²	
73°F	2.3	4.0	ft·lb/in ²	
Thermal	Dry	Conditioned	Unit	Test Method



Melting Temperature	487	--	°F	ISO 11357-3
Processing Information				
Extrusion			Dry Unit	
Cylinder Zone 1 Temp.			545 to 572	°F
Cylinder Zone 2 Temp.			545 to 572	°F
Cylinder Zone 3 Temp.			536 to 563	°F
Cylinder Zone 4 Temp.			518 to 545	°F
Cylinder Zone 5 Temp.			509 to 536	°F
Melt Temperature			536 to 572	°F
Die Temperature			536 to 572	°F

Notes

¹ Typical properties: these are not to be construed as specifications.

² Sulphuric Acid

