

HiDura™ LUX H3X NT0853

Specialty Polymer



HiDura LUX H3X NT0853 is a polyamide 6I/6T copolymer grade. It can be used for film applications to enhance processability, shrink, and thermoforming characteristics.

General

Regional Availability	• North America • South and Central America	• Europe	• Asia Pacific
Features	• Chemical Resistant • High Viscosity	• Copolymer	• High Melt Strength
Agency Rating	• ASTM, D4066 PA0000B6405	• ASTM, D6779 PA0000B6405	• ISO, 1043 PA6I6T
Appearance	• Natural Color		
Forms	• Pellets		
Processing Method	• Blow Molding	• Film Extrusion	• Thermoforming

Physical

	dry	cond.	Unit	Test Standard
Density	1.18	-	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow : 23°C, 2.00 mm	0.6	*	%	
Flow : 23°C, 2.00 mm	0.6	*	%	
Water Absorption				ISO 62
23°C, 24 hr	0.7	*	%	
Equilibrium, 23°C, 50% RH	2	*	%	

Mechanical

	dry	cond.	Unit	Test Standard
Tensile Modulus (23°C)	3000	2800	MPa	ISO 527-2
Tensile Stress (Yield, 23°C)	99	95	MPa	ISO 527-2
Tensile Stress (Break, 23°C)	76	50	MPa	ISO 527-2
Tensile Strain (Yield, 23°C)	8.4	5.5	%	ISO 527-2
Tensile Strain (Break, 23°C)	>50	>50	%	ISO 527-2
Flexural Modulus (23°C)	3100	3100	MPa	ISO 178
Flexural Strength (23°C)	98	98	MPa	ISO 178
Poisson's Ratio (23°C)	0.38		-	ISO 527-2

Thermal

	dry	cond.	Unit	Test Standard
Heat Deflection Temperature				ISO 75-2/A
1.80 MPa, Unannealed	110	84	°C	
0.45 MPa, Unannealed	120	93	°C	
CLTE				ISO 11359-2

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Flow : 23 to 55°C, 2.00 mm	69	*	E-6/K
Transverse : 23 to 55°C, 2.00 mm	68	*	E-6/K

Electrical	dry	cond.	Unit	Test Standard
Dielectric Strength (1.00 mm)	26	25	kV/mm	IEC 60243

Extrusion	Value	Unit
Cylinder Zone 1 Temp	220 - 240	°C
Cylinder Zone 2 Temp	240 - 270	°C
Cylinder Zone 3 Temp	240 - 270	°C
Cylinder Zone 4 Temp	240 - 270	°C
Cylinder Zone 5 Temp	240 - 270	°C
Melt temperature	240 - 270	°C
Die temperature	250 - 275	°C

