

HiDura™ D0X NT

polyamide 612

HiDura D0X NT is a neat, low viscosity PA612 grade. Given its low melt viscosity and excellent flow, it is a suitable feedstock for injection molding of thin or highly filled parts and in certain extrusion applications. It exhibits low moisture absorption, good chemical resistance and dimensional stability. PA612 offers a unique balance of thermal, mechanical and physical properties.

General

Regional Availability	• North America	• Europe	• Asia Pacific
Features	• Abrasion Resistance • High Flow	• Chemical Resistant • Low Viscosity	• Good Flow
Appearance	• Natural Color		
Forms	• Pellets		
Processing Method	• Injection Molding	• Other Extrusion	

Physical

	dry	cond.	Unit	Test Standard
Density	1.06	-	g/cm ³	ISO 1183
Water Absorption				ISO 62
23°C, 24 hr	0.39	*	%	
Equilibrium, 23°C, 50% RH	1.3	*	%	

Mechanical

	dry	cond.	Unit	Test Standard
Tensile Modulus (23°C)	2100	1600	MPa	ISO 527-2
Tensile Stress (Yield, 23°C)	64	54	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	27	130	%	ISO 527-2
Flexural Modulus (23°C)	2300	2700	MPa	ISO 178
Flexural Strength (23°C)	68	44	MPa	ISO 178

Impact

	dry	cond.	Unit	Test Standard
Charpy Notched Impact Strength				ISO 179/1eA
+23°C	3.3	5.8	kJ/m ²	
-30°C	2.9	3.6	kJ/m ²	
-40°C	2.9	3.3	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
+23°C	N	N	kJ/m ²	
-30°C	N	N	kJ/m ²	
-40°C	N	N	kJ/m ²	
Notched Izod Impact Strength				ISO 180/1A
+23°C	3.6	4	kJ/m ²	
-30°C	3.4	3.8	kJ/m ²	
-40°C	3.3	4.5	kJ/m ²	

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Thermal	dry	cond.	Unit	Test Standard
Heat Deflection Temperature				ISO 75-2/A
1.80 MPa, Unannealed	62	-	°C	
0.45 MPa, Unannealed	144	116	°C	
Melting Temperature	218	*	°C	ISO 11357-3

Electrical	dry	cond.	Unit	Test Standard
Dielectric Strength (1.00 mm)	31	29	kV/mm	IEC 60243

Injection	Value	Unit
Drying Temperature	80	°C
Drying Time	4 - 6	h
Suggested Max Moisture	0.15	%
Processing (Melt) Temperature	230 - 290	°C
Mold Temperature	50 - 100	°C

HiDURA™