

HiDura™ DOM NT0821

polyamide 612

HiDura DOM NT0821 is a low viscosity, lubricated PA612 molding grade. It exhibits excellent flow and release making it suitable for injection molding of thin parts. 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	• Chemical Resistant	• Good Dimensional Stability	• High Flow
Appearance	• Natural Color		
Forms	• Pellets		
Processing Method	• Injection Molding		

Physical

	dry	cond.	Unit	Test Standard
Density	1.06	-	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow : 23°C, 2.00 mm	2.0	*	%	
Flow : 23°C, 2.00 mm	2.2	*	%	
Water Absorption, 23°C, 24 hr	0.4	*	%	ISO 62

Mechanical

	dry	cond.	Unit	Test Standard
Tensile Modulus (23°C)	2300	1700	MPa	ISO 527-2
Tensile Stress (Yield, 23°C)	65	55	MPa	ISO 527-2
Tensile Stress (Break, 23°C)	40	37	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	31	81	%	ISO 527-2
Flexural Modulus (23°C)	2500	1700	MPa	ISO 178
Flexural Strength (23°C)	73	44	MPa	ISO 178

Impact

	dry	cond.	Unit	Test Standard
Charpy Notched Impact Strength				ISO 179/1eA
+23°C	4.1	6	kJ/m ²	
-30°C	3.9	3.6	kJ/m ²	
-40°C	3.6	3.1	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	3.9	4.7	kJ/m ²	
-30°C	3.8	3.8	kJ/m ²	

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-40°C	3.9	4	kJ/m²	
Thermal	dry	cond.	Unit	Test Standard
Heat Deflection Temperature				ISO 75-2/A
1.80 MPa, Unannealed	64	-	°C	
0.45 MPa, Unannealed	146	-	°C	
Melting Temperature	218	*	°C	ISO 11357-3
Electrical	dry	cond.	Unit	Test Standard
Dielectric Strength (1.00 mm)	41	29	kV/mm	IEC 60243

