+135-3858-6433 (GuangDong)
+188-1699-6168 (ShangHai)
+852-6957-5415 (HongKong)

HiDura™ D0MP NT0805

polyamide 612

HiDura D0MP NT0805 is a nucleated, lubricated and low viscosity PA612 molding grade. It exhibits excellent flow, crystallization rate and release making it suitable for injection molding of thin parts (i.e. cable ties, battery seals, etc). 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
Additive	• Lubricant		
Features	• Abrasion Resistance	• Chemical Resistant	• Excellent Processability
	• Fast Molding Cycle	• Good Dimensional Stability	• Good Flow
	• Good Mold Release	• High Flow	• Low Viscosity
	• Lubricated		
Appearance	• Natural Color		
Forms	• Pellets		
Processing Method	• Injection Molding		

Physical	dry	cond.	Unit	Test Standard
Density	1.07	-	g/cm³	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				ISO 62
23°C, 24 hr	0.37	*	%	
Equilibrium, 23°C, 50% RH	1.3	*	%	

Mechanical	dry	cond.	Unit	Test Standard
Tensile Modulus (23°C)	2400	1800	MPa	ISO 527-2
Tensile Stress (Yield, 23°C)	66	57	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	21	62	%	ISO 527-2
Flexural Modulus (23°C)	2300	1700	MPa	ISO 178
Flexural Strength (23°C)	70	44	MPa	ISO 178

Impact	dry	cond.	Unit	Test Standard
Charpy Notched Impact Strength				ISO 179/1eA
+23°C	3.2	4.7	kJ/m²	
-30°C	3	3.6	kJ/m²	
-40°C	2.8	3	kJ/m²	
Charpy Unnotched Impact Strength				ISO 179/1eU
+23°C	N	N	kJ/m²	

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-30°C	N	N	kJ/m²	
-40°C	N	N	kJ/m²	
Notched Izod Impact Strength				ISO 180/1A
+23°C	3.3	4.7	kJ/m²	
-30°C	3.4	4.4	kJ/m²	
-40°C	3.5	4.4	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	151	148	°C	
Melting Temperature	218	*	°C	ISO 11357-3

Electrical	dry	cond.	Unit	Test Standard
Dielectric Strength (1.00 mm)	30	31	kV/mm	IEC 60243

Injection	Value	Unit
Drying Temperature	80	°C
Drying Time	4 - 6	h
Suggested Max Moisture	0.15	%
Processing (Melt) Temperature	235 - 290	°C
Mold Temperature	50 - 90	°C