

Nylene® 401A

Polyamide 6
Custom Resins Group

Message:

Nylene® 401A is a Polyamide 6 (Nylon 6) material. It is available in North America for injection molding.
Important attributes of Nylene® 401A are:
Good Mold Release
High Flow
Lubricated
Typical application of Nylene® 401A: Engineering/Industrial Parts

General Information				
Additive		Lubricant		
Features		Good Mold Release		
		High Flow		
		Lubricated		
Uses		Thin-walled Parts		
Forms		Pellets		
Processing Method		Injection Molding		
Physical	Dry	Conditioned	Unit	Test Method
Specific Gravity	1.14	1.14	g/cm ³	ASTM D792
Apparent Density	0.67	0.67	g/cm ³	ASTM D1895
Water Absorption (Equilibrium)	1.8	--	%	ASTM D570
Hardness	Dry	Conditioned	Unit	Test Method
Rockwell Hardness (R-Scale)	118	--		ASTM D785
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Strength				ASTM D638
Yield	79.3	45.5	MPa	
Break, -40°C	96.5	97.9	MPa	
Break, 23°C	79.3	68.9	MPa	
Break, 77°C	48.3	42.1	MPa	
Tensile Elongation (Break)	40	170	%	ASTM D638
Flexural Modulus	2340	--	MPa	ASTM D790
Impact	Dry	Conditioned	Unit	Test Method
Notched Izod Impact	43	270	J/m	ASTM D256
Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load				ASTM D648
0.45 MPa, Unannealed	182	182	°C	
1.8 MPa, Unannealed	67.8	67.8	°C	

Melting Temperature	221	--	°C
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Recommended distributors for this material

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