

NYCOA Polyamide 2001

Polyamide

Nycoa (Nylon Corporation of America)

Message:

NYCOA 2001 is a flexible, high viscosity, impact modified Nylon 6 resin for extrusion processing and injection molding.

NYCOA 2001 is a high viscosity resin that features a very high resistance to impact, high melt strength, and exceptional toughness.

NYCOA 2001 is recommended for extruded profiles and tubes requiring very good toughness, even at low temperatures. Injection molding applications include safety guards, and soft-touch appliance parts.

General Information	
Additive	Impact modifier
Features	Impact modification
	Low Temperature Flexibility
	Impact resistance, high
	Good melt strength
	Good flexibility
	Good toughness
Uses	Viscosity, High
	Pipe fittings
	Guardrail
	Home appliance components
	Profile
Forms	Particle
Processing Method	Extrusion
	Injection molding

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.11	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR)			ASTM D1238
235°C/1.0 kg	0.52	g/10 min	ASTM D1238
235°C/5.0 kg	6.5	g/10 min	ASTM D1238
Molding Shrinkage			ASTM D955
Flow	1.2	%	ASTM D955
Transverse flow	1.7	%	ASTM D955
Water Absorption (24 hr)	1.3	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Yield)	67.6	MPa	ASTM D638
Tensile Elongation ² (Break)	300	%	ASTM D638
Flexural Modulus ³	1690	MPa	ASTM D790

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (6.35 mm)	850	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, not annealed	150	°C	ASTM D648
1.8 MPa, not annealed	55.6	°C	ASTM D648
Melting Temperature	218	°C	

Additional Information

The value listed as Melting Point was tested in accordance with ASTM D789.Tensile Elongation at Break, ASTM D638: 300+%

Injection	Nominal Value	Unit
Drying Temperature	71.1 - 82.2	°C
Drying Time	4.0 - 6.0	hr
Rear Temperature	221 - 241	°C
Middle Temperature	235 - 252	°C
Front Temperature	246 - 260	°C
Nozzle Temperature	254 - 266	°C
Processing (Melt) Temp	249 - 266	°C
Mold Temperature	76.7 - 87.8	°C
Injection Rate	Fast	
Back Pressure	0.138 - 0.517	MPa
Cushion	1.59 - 6.35	mm
Screw L/D Ratio	16.0:1.0	
Screw Compression Ratio	3.0:1.0	

NOTE

1. 51 mm/min
2. 51 mm/min
3. 51 mm/min

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