

# NYCOA Polyamide 2301

Polyamide + TPE

Nycoa (Nylon Corporation of America)

## Message:

NYCOA 2301 is a highly flexible Nylon copolymer TPE suitable for extrusion processing and injection molding.

NYCOA 2301 processes easily at low injection pressure compared to other impact modified nylons. It can be molded and extruded on standard equipment.

NYCOA 2301 is recommended for applications that require premium toughness such as hoses, connectors, tool housing, appliance parts, and hardware items.

General Information			
Features	Copolymer		
	Workability, good		
	Good flexibility		
	Good toughness		
Uses	Pipe		
	Home appliance components		
	Connector		
	Shell		
Forms	Particle		
Processing Method	Extrusion		
	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.11	g/cm <sup>3</sup>	ASTM D792
Molding Shrinkage			ASTM D955
Flow	1.2	%	ASTM D955
Transverse flow	1.4	%	ASTM D955
Water Absorption (24 hr)	1.7	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength <sup>1</sup>	52.1	MPa	ASTM D638
Tensile Elongation <sup>2</sup> (Break)	300	%	ASTM D638
Flexural Modulus <sup>3</sup>	896	MPa	ASTM D790
Flexural Strength <sup>4</sup>	35.9	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (6.35 mm)	120	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Melting Temperature	212	°C	DSC
Additional Information			

The value listed as Melting Point DSC, was tested in accordance with ASTM D789.

Injection	Nominal Value	Unit
Drying Temperature	71.1	°C
Drying Time	4.0 - 6.0	hr
Rear Temperature	216 - 227	°C
Middle Temperature	221 - 238	°C
Front Temperature	232 - 249	°C
Nozzle Temperature	243 - 260	°C
Processing (Melt) Temp	243 - 254	°C
Mold Temperature	21.1 - 48.9	°C
Injection Rate	Moderate-Fast	
Back Pressure	0.138 - 0.345	MPa
Cushion	1.59 - 6.35	mm
Screw L/D Ratio	18.0:1.0	
Screw Compression Ratio	3.0:1.0	

#### NOTE

- |    |           |
|----|-----------|
| 1. | 50 mm/min |
| 2. | 50 mm/min |
| 3. | 50 mm/min |
| 4. | 50 mm/min |

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