

NYCOA Polyamide 1976

Polyamide 6 Alloy

Nycoa (Nylon Corporation of America)

Message:

NYCOA 1976 is a high viscosity resin particularly suitable for extrusion processing.
NYCOA 1976 was specifically formulated to offer very high flexibility, strength, and impact toughness in extruded products.

General Information			
Additive	Plasticizer		
Features	Plasticized		
	Impact resistance, good		
	Good strength		
	Good flexibility		
	Viscosity, High		
Forms	Particle		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.02	g/cm ³	ASTM D792
Molding Shrinkage			ASTM D955
Flow	0.80	%	ASTM D955
Transverse flow	1.0	%	ASTM D955
Water Absorption (24 hr)	1.0	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	45		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹	28.0	MPa	ASTM D638
Tensile Elongation ² (Break)	600	%	ASTM D638
Flexural Modulus ³	89.6	MPa	ASTM D790
Flexural Strength ⁴	11.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
	No fracture		
Notched Izod Impact (6.35 mm)	850 J/m		ASTM D256
Thermal	Nominal Value	Unit	Test Method
Melting Temperature	205	°C	DSC
Additional Information			
The value listed as Melting Point DSC, was tested in accordance with ASTM D789.Tensile Elongation at Break, ASTM D638, 2 in/min: 600+%			
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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