

NYCOA Polyamide 2076

Polyamide + TPE

Nycoa (Nylon Corporation of America)

Message:

NYCOA 2076 is a high viscosity resin particularly suitable for extrusion processing. Its high melt viscosity and extremely good melt strength provides ease of processing for tubing, complex profile, and mandrel extrusion.

NYCOA 2076 was specifically formulated to offer higher flexibility, higher strength, and very high impact toughness, in large diameter extruded products. The high melt strength prevents ripples or necking in mandrel extrusion.

Typical extrusion applications include hose mandrels for rubber vulcanization, high-pressure & hydraulic hoses, and flexible & vacuum tubing.

General Information			
Additive	Plasticizer		
Features	High strength		
	Plasticized		
	Impact resistance, high		
	Workability, good		
	Good melt strength		
	Good flexibility		
	Viscosity, High		
Uses	Pipe		
	Pipe fittings		
	Profile		
	Hydraulic application		
Forms	Particle		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.05	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)	60		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹	34.5	MPa	ASTM D638
Tensile Elongation ² (Break)	500	%	ASTM D638
Flexural Modulus ³	124	MPa	ASTM D790
Flexural Strength ⁴	6.89	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method

No fracture

Notched Izod Impact (6.35 mm)	690 J/m	ASTM D256
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Thermal	Nominal Value	Unit	Test Method
Melting Temperature	205	°C	DSC

Additional Information

Tensile Elongation at Break, ASTM D638, 2 in/min: 500+%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.	51 mm/min
2.	51 mm/min
3.	51 mm/min
4.	51 mm/min

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