

NYCOA Polyamide 471

Polyamide 6

Nycoa (Nylon Corporation of America)

Message:

NYCOA 471 is a medium viscosity Nylon 6 resin particularly suitable for extrusion processing. It possesses an excellent combination of strength, and toughness; as well as excellent heat, chemical, and abrasion resistance inherent to Nylon 6. Its high melt viscosity and strength provide ease of processing from either a flat or a circular die. Similarly, tubes, pipes, and tapes have been processed with excellent results. Injection molding of high strength parts can be accomplished with molding cycles similar to those obtained with general purpose grade resins, even though higher cylinder temperatures may sometimes be required.

General Information			
Features	Workability, good		
	Good strength		
	Good wear resistance		
	Good chemical resistance		
	Thermal stability, good		
	Good toughness		
	Medium viscosity		
Uses	Strap		
	Piping system		
	Pipe fittings		
Forms	Particle		
Processing Method	Pipeline extrusion molding		
	Extrusion		
	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.13	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (235°C/1.0 kg)	2.6	g/10 min	ASTM D1238
Water Absorption (24 hr)	1.6	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Yield)	80.0	MPa	ASTM D638
Tensile Elongation ² (Break)	100	%	ASTM D638
Flexural Modulus ³	250	MPa	ASTM D790
Flexural Strength ⁴	100	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (6.35 mm)	53	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method

Deflection Temperature Under Load (0.45 MPa, Unannealed)	177	°C	ASTM D648
Melting Temperature	220	°C	DSC
Additional Information			

Relative Viscosity, NYCOA method: 3.3 to 3.5 SAVWater Extractable, NYCOA method: Max 0.8%Melt Mass- Flow Rate (MFR). ASTM D1238, 235°C/1.0kg: 2.4 to 2.8 g/10minTensile Elongation at Break, ASTM D638, 2 in/min: 100+%The value listed as Melting Point DSC, was tested in accordance with ASTM D789.

NOTE			
1.	51 mm/min		
2.	51 mm/min		
3.	51 mm/min		
4.	51 mm/min		

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