

NYCOA Polyamide 471 R

Polyamide 6

Nycoa (Nylon Corporation of America)

Message:

NYCOA 471 R 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	High strength Workability, good Good melt strength Good wear resistance Good chemical resistance Heat resistance, high 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	80.0	MPa	ASTM D638
Tensile Elongation ² (Break)	100	%	ASTM D638
Flexural Modulus ³	2500	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 3.4 SAVWater Extractable, NYCOA Method: Max 0.8 %Melt Flow Index, ASTM D1238, 235°C/1kg: 2.4 to 2.8 g/10 minTensile 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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