

# NYCOA Polyamide 446

Polyamide 6

Nycoa (Nylon Corporation of America)

Message:

NYCOA 446 is a high viscosity, nucleated Nylon 6 resin for extrusion processing. Its high viscosity and fast set-up time make NYCOA 446 an excellent material for extrusion of tubing, rods, sheet and film.  
NYCOA 446 has been approved by Underwriters' Laboratories in thicknesses of 3mm or greater in accordance with specification UL-94 V-2.  
NYCOA 446 complies with all the requirements of the FDA regulations 21 CFR 177.1500.

General Information			
Additive	Nucleating agent		
Features	Nucleated		
	Viscosity, High		
Uses	Bar		
	Films		
	Pipe fittings		
	Sheet		
Agency Ratings	FDA 21 CFR 177.1500		
Forms	Particle		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.13	g/cm <sup>3</sup>	ASTM D792
Water Absorption (24 hr)	1.7	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	120		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength <sup>1</sup>	80.0	MPa	ASTM D638
Tensile Elongation <sup>2</sup> (Break)	40	%	ASTM D638
Flexural Modulus <sup>3</sup>	2650	MPa	ASTM D790
Flexural Strength <sup>4</sup>	115	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	43	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, not annealed	191	°C	ASTM D648
1.8 MPa, not annealed	68.3	°C	ASTM D648
Melting Temperature	221	°C	DSC
Flammability	Nominal Value		Test Method
Flame Rating (3.00 mm)	V-2		UL 94

#### Additional Information

Relative Viscosity, NYCOA Method: 4.0 to 4.4 SAVWater Extractable, NYCOA Method: 0.8 %The value listed as Metling 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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#### Recommended distributors for this material

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