

NYCOA Polyamide 589

Polyamide 6

Nycoa (Nylon Corporation of America)

Message:

NYCOA 589 is an ultra-high viscosity Nylon 6 resin for extrusion processing. It retains good melt strength even at high processing temperatures. This trait makes it suitable for blow molding and blown film processing. Typical applications include profile
NYCOA 589 also features very good toughness and resistance to chemical attack.
NYCOA 589 complies with all the requirements of the FDA regulations 21 CFR 177.1500.

General Information			
Features	Very high viscosity		
	Good melt strength		
	Good chemical resistance		
	Good toughness		
Uses	Films		
	Blow molding applications		
	Profile		
Agency Ratings	FDA 21 CFR 177.1500		
Forms	Particle		
Processing Method	Blow film		
	Blow molding		
	Extrusion		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.13	g/cm ³	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 ¹	89.6	MPa	ASTM D638
Tensile Elongation ² (Break)	150	%	ASTM D638
Flexural Modulus ³	2700	MPa	ASTM D790
Flexural Strength ⁴	100	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	69	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
Additional Information			
Relative Viscosity, NYCOA Method: 5 to 5.5 SAVWater Extractable, NYCOA Method: 0.8 %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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