

NYCOA Polyamide 2277

Polyamide Copolymer

Nycoa (Nylon Corporation of America)

Message:

NYCOA 2277 is a Nylon copolymer developed specially for applications that demand a high degree of toughness and flexibility. Its moderately high melt viscosity processes easily on conventional extrusion equipment and yields products with extremely high tenacity and strength. NYCOA 2277 is available with custom additive packages including heat stabilizers, UV stabilizers, or customer colors. Typical applications include film, sheet, and fishing line.

General Information			
Features	High tensile strength		
	High strength		
	Copolymer		
	Good flexibility		
	Good toughness		
	Medium and high viscosity		
Uses	Films		
	monofilament		
	Sheet		
	Fishery application		
Appearance	Available colors		
Forms	Particle		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.12	g/cm ³	ASTM D792
Water Absorption (24 hr)	1.6	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹	70.0	MPa	ASTM D638
Tensile Elongation ² (Break)	500	%	ASTM D638
Flexural Modulus ³	2100	MPa	ASTM D790
Flexural Strength ⁴	82.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (6.35 mm)	140	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Melting Temperature	188	°C	DSC
Additional Information			
The value listed as Melting Point DSC, was tested in accordance with ASTM D789.Relative Viscosity, NYCOA method: 4.0 SAVWater Extracable, NYCOA method: 1%Tensile Elongation at Break, ASTM D638, 2 in/min: 500+%			
NOTE			

1.	50 mm/min
2.	50 mm/min
3.	50 mm/min
4.	50 mm/min

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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

