

NYCOA Polyamide 2011

Polyamide + TPE

Nycoa (Nylon Corporation of America)

Message:

NYCOA 2011 is a flexible Nylon copolymer TPE particularly suitable for extrusion applications. It has a moderately high melt viscosity, excellent processability and yields extremely tough and resilient finished articles.

NYCOA 2011 is recommended for applications that demand easy flow, exceptional toughness, and flexibility with low moisture absorption. The high thermal and chemical resistance, inherent to Nylon 6, is retained.

NYCOA 2011 is available with custom additive packages: heat stabilizer, UV stabilizer, flame retardant and/or customer colors. Typical applications include flexible tubing and fishing line.

General Information			
Features	Low hygroscopicity		
	Copolymer		
	Workability, good		
	Good liquidity		
	Good flexibility		
	Good chemical resistance		
	Good toughness		
	Elastic		
	Medium and high viscosity		
Uses	monofilament		
	Pipe fittings		
	Fishery application		
Forms	Particle		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.10	g/cm ³	ASTM D792
Water Absorption			ASTM D570
24 hr	1.3	%	ASTM D570
Saturation	6.5	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹	57.9	MPa	ASTM D638
Tensile Elongation ² (Break)	500	%	ASTM D638
Flexural Modulus ³	469	MPa	ASTM D790
Flexural Strength ⁴	22.1	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	190	J/m	ASTM D256
Thermal	Nominal Value	Unit	
Melting Temperature	205	°C	

Additional Information

Water Extractable, NYCOA Method: 8 to 10 %The value listed as Melting Point was tested in accordance with ASTM D789.Tensile Elongation at Break, ASTM D638: 500+%

Injection	Nominal Value	Unit
Drying Temperature	71.1	°C
Drying Time	4.0 - 6.0	hr
Rear Temperature	216 - 227	°C
Middle Temperature	221 - 238	°C
Front Temperature	232 - 249	°C
Nozzle Temperature	243 - 260	°C
Processing (Melt) Temp	243 - 254	°C
Mold Temperature	21.1 - 48.9	°C
Injection Rate	Moderate-Fast	
Back Pressure	0.138 - 0.345	MPa
Cushion	1.59 - 6.35	mm
Screw L/D Ratio	18.0:1.0	
Screw Compression Ratio	3.0:1.0	

NOTE

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

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