

NYCOA Polyamide 2012

Polyamide + TPE

Nycoa (Nylon Corporation of America)

Message:

NYCOA 2012 is a flexible Nylon copolymer TPE particularly suitable for extrusion and injection molding applications. It has a moderately high melt viscosity, excellent processability and yields extremely tough and resilient finished articles.

NYCOA 2012 is recommended for applications that demand easy flow, exceptional toughness, and flexibility with low moisture absorption. Its melt viscosity and strength provide ease of processing for tubing, profile, and molded articles. The high thermal an

NYCOA 2012 possesses excellent impact resistance and flexibility, without the use of plasticizer or other exuding additives. It is available with custom additive packages: heat stabilizer, UV stabilizer, flame retardant and/or customer colors.

General Information	
Features	Low hygroscopicity Copolymer Impact resistance, good Workability, good Good liquidity Good flexibility Good chemical resistance Good toughness Elastic Medium and high viscosity
Uses	Pipe fittings Profile
Forms	Particle
Processing Method	Extrusion Injection molding

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.10	g/cm ³	ASTM D792
Water Absorption			ASTM D570
24 hr	1.0	%	ASTM D570
Saturation	5.5	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹	57.9	MPa	ASTM D638
Tensile Elongation ² (Break)	300	%	ASTM D638
Flexural Modulus ³	1380	MPa	ASTM D790
Flexural Strength ⁴	49.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (6.35 mm)	110	J/m	ASTM D256

Thermal	Nominal Value	Unit
Melting Temperature	205	°C
Additional Information		
Water Extractable, NYCOA Method: 0.8 %The value listed as Melting Point was tested in accordance with ASTM D789.Tensile Elongation at Break, ASTM D638: 300+%		
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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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



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