

NYCOA Polyamide 2612

Polyamide 612

Nycoa (Nylon Corporation of America)

Message:

NYCOA 2612 is a medium viscosity Nylon 6/12 that features excellent dimensional stability, with low moisture absorption. This grade is available in custom viscosities, and additive packages.
Typical applications include monofilament, tubing, and structural injection molded parts.

General Information			
Features	Good dimensional stability		
	Low hygroscopicity		
	Medium viscosity		
Uses	monofilament		
	Components		
	Pipe fittings		
Forms	Particle		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.06	g/cm ³	ASTM D792
Water Absorption (24 hr)	0.25	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	80		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹	62.1	MPa	ASTM D638
Tensile Elongation ² (Break)	300	%	ASTM D638
Flexural Modulus ³	2050	MPa	ASTM D790
Flexural Strength ⁴	78.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (6.35 mm)	48	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, not annealed	155	°C	ASTM D648
1.8 MPa, not annealed	58.3	°C	ASTM D648
Melting Temperature	217	°C	DSC
Additional Information			
The value listed as Melting Point DSC, was tested in accordance with ASTM D789.Tensile Elongation at Break, ASTM D638, 2 in/min: 300+%			
Injection	Nominal Value	Unit	
Drying Temperature	71.1 - 82.2	°C	
Drying Time	4.0 - 6.0	hr	

Rear Temperature	221 - 232	°C
Middle Temperature	232 - 243	°C
Front Temperature	243 - 254	°C
Nozzle Temperature	243 - 254	°C
Processing (Melt) Temp	243 - 254	°C
Mold Temperature	65.6 - 76.7	°C
Injection Rate	Fast	
Back Pressure	0.138 - 0.517	MPa
Cushion	1.59 - 6.35	mm
Screw L/D Ratio	16.0:1.0	
Screw Compression Ratio	3.0:1.0	

NOTE

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

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