

NYCOA Polyamide 7551 Nat

Polyamide 12

Nycoa (Nylon Corporation of America)

Message:

NYCOA 7551 Nat is a heat stabilized Nylon 12 alloy that offers outstanding toughness, flexibility, and impact strength. It has been specially formulated to give excellent resistance to zinc chloride and other automotive fluids. The material offers high resistance to moisture absorption.

NYCOA 7551 Nat is suitable for both injection molding and extrusion. It exhibits outstanding processability, chemical resistance, good heat stability and an excellent balance of mechanical properties. This grade is available with custom additive packages: UV stabilizer, flame retardant and/or custom colors. Typical applications include high performance automotive tubing; air brakes, fuel lines and lube lines and profile extrusion.

General Information	
Additive	heat stabilizer
Features	Low hygroscopicity
	Impact resistance, good
	Workability, good
	Good flexibility
	Good chemical resistance
	Thermal Stability
	Good toughness
Uses	Pipe fittings
	Application in Automobile Field
	Fuel line
	Profile
Appearance	Available colors
	Natural color
Forms	Particle
Processing Method	Extrusion
	Profile extrusion molding
	Injection molding

Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.998	g/cm ³	ASTM D792
Water Absorption			ASTM D570
24 hr	0.34	%	ASTM D570
Saturation	1.0	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹	44.0	MPa	ASTM D638
Tensile Elongation ² (Break)	600	%	ASTM D638

Flexural Modulus ³	437	MPa	ASTM D790
Flexural Strength ⁴	17.4	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
	No fracture		

Notched Izod Impact (6.35 mm)	850 J/m		ASTM D256
Thermal	Nominal Value	Unit	
Melting Temperature	174 - 206	°C	

Additional Information			
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The value listed as Melting Point, was tested in accordance with ASTM D789.Tensile Elongation at Break, ASTM D638, 2 in/min: 600+%

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

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