

NYCOA Polyamide 7530 Nat

Polyamide 12

Nycoa (Nylon Corporation of America)

Message:

NYCOA 7530 Nat is a heat stabilized Nylon 12 alloy that offers outstanding toughness, flexibility, and impact strength. It has been specially formulated to give resistance to zinc chloride and other automotive fluids. The material offers high resistance to moisture absorption. NYCOA 7530 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 profile extrusion.

General Information			
Additive	heat stabilizer		
Features	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	1.01	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	40.0	MPa	ASTM D638
Tensile Elongation ² (Break)	700	%	ASTM D638
Flexural Modulus ³	331	MPa	ASTM D790

Impact	Nominal Value	Unit	Test Method
	No fracture		
Notched Izod Impact (6.35 mm)	820 J/m		ASTM D256
Thermal	Nominal Value	Unit	
Melting Temperature	174 - 206	°C	
Additional Information			
The value listed as Melting Point, was tested in accordance with ASTM D789.Tensile Elongation at Break, ASTM D638, 2 in/min: 700+%			
NOTE			
1.	50 mm/min		
2.	50 mm/min		
3.	50 mm/min		

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