

# NYCOA Polyamide 870

Polyamide 6

Nycoa (Nylon Corporation of America)

Message:

NYCOA 870 is a heat stabilized extrusion grade resin recommended for wire and cable jacketing. Its excellent abrasion resistance and heat stability provide an exceptionally durable protective jacket for many types of wire products, and its processing char

NYCOA 870 has been listed by Underwriters Laboratories for jacketing types THHN and THWN thermoplastic-insulated building wires and gasoline resistant types THWN and TW. Approval for jacketing appliance and wiring material for 75C oil resistant uses has a

NYCOA 870 can be certified to MIL-M-20693A, Types IV and IVA nylon.

General Information			
Additive	heat stabilizer		
	Plasticizer		
Features	Workability, good		
	Good wear resistance		
	Durability		
	Oil resistance		
	Thermal Stability		
Uses	Cable sheath		
	Wire sheath		
Agency Ratings	MIL M-20693A, Type IV		
	MIL M-20693A, Type IVA		
	UL Type TW in 75°C oil		
Forms	Particle		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.13	g/cm <sup>3</sup>	ASTM D792
Water Absorption (24 hr)	1.8	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	105		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength <sup>1</sup>	79.3	MPa	ASTM D638
Tensile Elongation <sup>2</sup> (Break)	150	%	ASTM D638
Flexural Modulus <sup>3</sup>	2590	MPa	ASTM D790
Flexural Strength <sup>4</sup>	114	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	48	J/m	ASTM D256

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	60.0	°C	ASTM D648
Melting Temperature	216	°C	DSC

#### Additional Information

The value listed as Melting Point DSC, was tested in accordance with ASTM D789.

#### NOTE

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

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#### Recommended distributors for this material

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