

NYCOA Polyamide 1637 W

Polyamide 6

Nycoa (Nylon Corporation of America)

Message:

NYCOA 1637 W is a plasticized, heat stabilized extrusion material used by the Wire and Cable Industry for protective jacketing. NYCOA 1637 W has been specifically designed to facilitate ease of processing over a broad range of conditions and to provide outstanding performance in applications involving exposure to elevated temperatures. NYCOA 1637 W meets the rigorous requirements for a protective material and has been recognized by the Underwriters' Laboratories for jacketing of Type THHN and Type THWN thermoplastic-insulated wire. This product is specially formulated to meet the UL requirements for sunlight resistance.

General Information			
Additive	heat stabilizer		
	Plasticizer		
Features	Plasticized		
	Good UV resistance		
	Workability, good		
	Thermal Stability		
Uses	Cable sheath		
	Wire and cable applications		
Forms	Particle		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.13	g/cm ³	ASTM D792
Water Absorption (24 hr)	2.5	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	105		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹	73.8	MPa	ASTM D638
Tensile Elongation ² (Break)	100	%	ASTM D638
Flexural Modulus ³	2100	MPa	ASTM D790
Flexural Strength ⁴	79.3	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (6.35 mm)	51	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	54.4	°C	ASTM D648
Melting Temperature	220	°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: 100+%

NOTE

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

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