

Nylene® NX4795

TECHNICAL DATASHEET

TDS Ref # 199 Reviewed: 10/6/2015

DESCRIPTION

- Heat stabilized, lubricated nylon 6 intended for use in coating wire, usually extrusion coated over a layer of PVC on electrical wires for toughness, temperature resistance, and insulating properties, and contains a high slip additive for ease of use when pulling wire through conduit.
- Delivered dry, with less than 0.2% moisture, and can be extruded as received.

PROPERTIES	TEST METHOD	UNIT	VALUE
PHYSICAL PROPERTIES			
Specific Gravity	D792	n/a	1.23
Water Absorption	D570	%	0.12
MECHANICAL PROPERTIES			
Elongation	(-40°C)	%	40
	(23°C)	%	70
	(77°C)	%	150
Flexural Strength	D790	MPa	100
Notched Izod Impact	(77°C)	J/m	800
	(-40°C)	J/m	28
	(23°C)	J/m	320
Rockwell Hardness	R Scale		117
Tensile Strength	(77°C)	MPa	45
	(23°C)	MPa	82
	(-40°C)	MPa	100
THERMAL PROPERTIES			
Coefficient of Thermal Expansion	n/a	mm/mm	4.61E-5
Heat Distortion	n/a	(0.45 MPa) °C	75
	na	(1.8 MPa) °C	175
Melt Point	D3418	°F (°C)	428 (220)
ELECTRICAL PROPERTIES			
Dielectric Constant		(60 cycles)	5.1
		(10E3 cycles)	4.7
		(10E6 cycles)	3.8
Dielectric Strength	IEC 30243	v/mil	440
Power Factor		(10E6 cycles)	0.03
		(60 cycles)	0.06
		(10E3 cycles)	0.05

NOTES

- Testing conducted on dry-as-molded specimens at 73°F

CHARACTERISTICS

Resin Type: Nylon 6
 Product Characteristics:
 Lubricated, Heat Stabilized, Lubricated

EXTRUSION PROCESSING

Wire & Cable

MARKETS USED

- Building Wire

APPLICATIONS

- Appliance Wire
- Automotive (hydrocarbon resistance)
- Cable Tray 1/0-1000 AWG [53.5mm²-507mm²]
- Entrance Cable 1-4/0 [42.4mm²-107mm²]
- NM-B/UF-B 14 AWG to 2 AWG
- Pumps and Motors
- Rope Coatings
- Standard circuit in NA: 14 & 12 AWG wire
- TH THHN Electrical

DISCLAIMER

The data set forth herein has been carefully compiled by Nylene in our laboratories. Values shown are typical properties and not specifications. Since processing variables will affect properties, the reproducibility of our data in a customer's testing facility is not guaranteed. There is no warranty of any kind, either expressed or implied, applicable to the use of this information, and the user assumes all risk and liability in connection therewith.



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