

Nylene® NX4795

Polyamide 6
Custom Resins Group

Message:

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.

General Information	
Additive	Heat Stabilizer
	High Slip
	Lubricant
Features	Good Toughness
	Heat Stabilized
	High Heat Resistance
	High Slip
	Lubricated
Uses	Wire Jacketing
Processing Method	Extrusion
	Wire & Cable Extrusion

Physical	Dry	Conditioned	Unit
Specific Gravity	1.23	1.13	g/cm ³
Water Absorption (Saturation)	0.12	--	%
Relative Viscosity - 90% Formic Acid	50	50	°C
Power Factor			
-- 1	0.0300	--	
-- 2	0.0600	--	
-- 3	0.0500	--	
Hardness	Dry	Conditioned	Unit
Rockwell Hardness (R-Scale)	117	--	
Mechanical	Dry	Conditioned	Unit
Tensile Strength			
-40°C	100	82.0	MPa
23°C	82.0	61.0	MPa
77°C	45.0	30.0	MPa

Tensile Elongation			
Break, -40°C	40	10	%
Break, 23°C	70	200	%
Break, 77°C	150	230	%
Flexural Strength	100	26.0	MPa
Impact	Dry	Conditioned	Unit
Notched Izod Impact			
-40°C	27	28	J/m
23°C	54	320	J/m
77°C	220	800	J/m
Thermal	Dry	Conditioned	Unit
Deflection Temperature Under Load			
0.45 MPa, Unannealed	175	175	°C
1.8 MPa, Unannealed	75.0	75.0	°C
Melting Temperature	220	220	°C
CLTE - Flow	4.6E-5	--	cm/cm/°C
Electrical	Dry	Conditioned	Unit
Dielectric Strength	17	--	kV/mm
Dielectric Constant			
60 Hz	5.10	--	
10 kHz	4.70	--	
10 MHz	3.80	--	
NOTE			
1.	10e6 cycles		
2.	60 cycles		
3.	10e3 cycles		

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