



FLAME RETARDANT NEOPRENE HEAT SHRINKABLE TUBE

SHRINK RATIO 2:1 FLAME RETARDANT RoHS AMS-DTL-23053/1 CL1&2

*Gamma's Neoprene (Chlorinated Polyolefin) **NP series*** is used for insulation, strain relief, and abrasion protection on cable harnesses and wire bundles in military and aerospace industries. NP Neoprene provides fluid and solvent resistance, including lubricating oil, aviation and ground-vehicle fuels and hydraulic fluids. Neoprene remains flexible at low temperatures

Neoprene NP Series

Superior Insulation & Repair

Wire & Cable Harnessing & Bundling

Cable & Connector Protection

Characteristics

Operating Temperature: -75° to 120° Celsius

Shrink Temperature: 135°

Flame Retardant

Shrink Ratio: 2:1

Environmentally Friendly

Specifications

Gamma	Minimum Expanded		Maximum Recovered		Recovered Thickness		Standard Packaging	
	ID as Supplied		ID After Heating		After Heating		Packaging	
W/ Size	mm	Inch	mm	Inch	mm	Inch	Spool	100' FT
NP-1/8	3.2	0.125	1.57	0.0620	0.7	0.028	500'	3000'
NP-3/16	4.8	0.188	2.36	0.0930	0.75	0.03	250'	1500'
NP-1/4	6.4	0.251	3.18	0.1250	0.8	0.031	250'	1250'
NP-3/8	9.6	0.378	4.75	0.1870	0.9	0.035	200'	1000'
NP-1/2	12.7	0.500	6.35	0.2500	1.05	0.041	200'	800'
NP-3/4	19.1	0.752	9.53	0.3750	1.45	0.057	100'	800'
NP-1	25.4	1.000	12.7	0.5000	1.7	0.067	100	600'
NP-1-1/4	31.8	1.250	15.9	0.6260	2.2	0.087	100'	500'
NP-1-1/2	38.1	1.500	19.1	0.7510	2.45	0.096	100'	400'
NP-2	50.8	2.000	25.4	1.0000	2.85	0.112	100'	100'
NP-3	76.2	3.000	38.1	1.5000	3.2	0.126	100'	100'

Properties

Properties		Test Method	Standard
Physical	Unaged Tensile Strength	ASTM D638	Min. 1.1kgf/mm ²
	Unaged Elongation		Min. 250%
	Aged Tensile Strength	ASTM D 638	0.85kgf/mm ²
	Aged Elongation	150°C/168hrs	Min. 200%
	Density	MIL-I-23053	Max. 1.40g/cm ² @23°C
	Heat Shock	MIL-I-23053	Pass@200°Cx4hrs
	Low Temperature Flex	ASTM D570	No Crack @ -75°C
Electrical	Dielectric Strength	ASTM D 876	Min. 300V / mil
	Volume Resistivity	ASTM D 876	Min. 1x10 ¹¹ Ω - cm
Chemical	Copper Corrosion	MIL-I-23053 150°C/16hrs	No Corrosion
	Fluid Resistance	MIL-I-23053 23°C/24hrs	Min. 0.85kgf/mm ²
	Tensile Strength		Min. 200%
	Elongation		Min. 250V/mil
Dielectric Strength			
	Flammability	MIL-I-23053	Pass

Color Code: 0=BLK, 1=BRN, 2=RED, 3=ORN, 4=YLW, 5=GRN, 6=BLU, 7=VIO, 8=GRY, 9=WHT, X=CLR
P/N Example: GMT-221-1/4-0 = Black ¼" Tubing

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