

Heavy Wall Crosslinked Polyolefin

Technical Data

Physical

Property	Test Method	Typical Performance
Tensile Strength	ASTM D412, ISO 37	2100 psi (14.5 MPa)
Elongation	ASTM D412, ISO 37	600%
Elongation after Heat Aging (168 hrs at 175°C)	ASTM D2671, ISO 37	500% (250%)
Longitudinal Change on Recovery	ASTM D2671	+1%, -10%
Specific Gravity	ASTM D792	1.2
Heat Shock (4hrs at 225°C)	ASTM D2671	No cracking or flowing
Low Temperature Flexibility (4hrs at -55°C)	ASTM D2671	No cracking or splitting
Hardness (Shore D)	ASTM D2240	50D
Oxygen Index	ASTM D2863	27.00
Flammability	ASTM D2671	Flame Retardant

Electrical

Dielectric Strength	ASTM D149	500 V/Mil (20kV/mm)
Dielectric Voltage Withstand (2500V, 60Hz, 1 min.)	UL 486D	No breakdown, 24kV-1 min, 15kV-4hrs.
Volume Resistivity	ASTM D257	10 ⁹ ohm-cm

Chemical

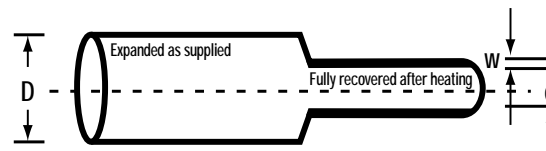
Fluid Resistance	MIL-DTL-23053/15	Good to Excellent
Copper Corrosion	ASTM D2671	No Corrosion
Water Absorption	ASTM D570	0.2%
Fungus Resistance	ASTM G21	No Growth

Adhesive

Adhesive softening point	ASTM E28	92°C +/- 5°C
Adhesive peel strength (300mm/min at 23°C)	ASTM D1000	
- to steel, alum, P.E.		35 pli
- to PVC		20 pli
Adhesive Lap Shear (1in./min at 23°C)	ASTM D1002	125 psi (0.875 MPa)
Adhesive Blocking (30°C)	ASTM D1146	No blocking
Adhesive Water Adsorption	ASTM D570	less than 0.3%
Water Penetration	STM 706	No penetration after 236 hrs. (min) of continuous immersion.

Dimensions

EXPANDED		RECOVERED		WALL THICKNESS (NOM)		APPLICATION RANGE FOR GENERAL USE		600/1000V SINGLE CONDUCTOR SIZE	STANDARD LENGTHS	
INTERNAL DIAMETER (MIN)	INTERNAL DIAMETER (MAX)	INTERNAL DIAMETER (MAX)	INTERNAL DIAMETER (MAX)	W	W	mm	IN	AWG/MCM	AA m	BB IN
8.9	0.35	3.0	0.12	1.8	0.07	3.5-8	.15-.3	#14 - #10	1.2	6, 48
13.0	0.51	4.1	0.16	2.4	0.080	4.5-11	2-.45	#8 - #6	1.2	6, 48
19.1	0.75	6.1	0.24	2.5	0.09	6.5-16.5	25-.65	#6 - #2	1.2	9, 12, 48
27.9	1.10	8.9	0.35	3.0	0.12	10-24	4-.95	#1 - 3/0	1.2	9, 12, 48
38.1	1.50	11.9	0.47	4.1	0.16	13-35	5-1.4	2/0 - 350	1.2	9, 12, 48
50.8	2.00	16.0	0.63	4.1	0.16	17.5-44	7-1.75	250 - 500	1.2	9, 12, 48
68.1	2.70	22.1	0.87	4.1	0.16	24-59	9.5-2.3	600 - 100	1.2	12, 18, 48
89.9	3.54	30.0	1.18	4.1	0.16	33-80	1.3-3.1	800 - 125	1.2	12, 18, 48
119.9	4.72	39.9	1.57	4.2	0.17	44-104	1.75-4.1	1500-2500	1.2	12, 18, 48



Standards: UL486D, CSA C22.2 No. 198.2, ANSI C119.1, Western Underground Guides Nos. 2.4, 2.5, MIL-DTL-23053/15, Class 1, IEEE 383 Vertical Flame Test, ANSI C37.20.2, ICEA and NEMA insulation thickness requirements.