TITLE: AWC800 (Red Super Polymer – 95A)

Typical Material Characteristics

Material: AWC800 -- 95A Super Polymer (Red)

PROPERTY	TEST METHOD	BRITISH	METRIC
Tensile Strength	ASTM D-412	5,000 psi	34.5 MPa
100% Modulus	ASTM D-412	1,800 psi	12.4 MPa
300% Modulus	ASTM D-412	3,400 psi	23.4 MPa
Elongation at Break	ASTM D-412	400%	400%
Specific Gravity	ASTM D-297	1.14	1.14
Tear Strength (Die C)	ASTM D-624	500 lb/in	87.5 kN/m
Compression Set (Method B), % After 22 hrs. at 70°C [158°F]	ASTM 395 (Type 1 Pellet, 25% Deflection)	22	22
Tear Strength (split)	ASTM D-470	150 lb/in	26.2 kN/m
Tear Strength (graves), Die C	ASTM D-624	500 lb/in	87.5 kN/m
Resilience (Rebound)	ASTM D-2632	40%	40%
Abrasion Resistance, NBS Index	ASTM D-630	400	400
Hardness	ASTM D-2240	95 Shore A 46-50 Shore D	95 Shore A 46-50 Shore D
Linear Coefficient of Thermal Expansion,			
-32°F to 32°F (36°C to 0°C)	-	1.27×10^{-4} in/in/°F	2.30×10^{-4} mm/mm/°C
32°F to 75°F (0°C to 24°C)	-	0.89×10^{-4} in/in/°F	1.60×10^{-4} mm/mm/°C
75°F to 212°F (24°C to 100°C)	-	0.89×10^{-4} in/in/°F	1.60×10^{-4} mm/mm/°C
212°F to 302°F (100°C to 150°C)	-	0.69×10^{-4} in/in/°F	1.24×10^{-4} mm/mm/°C
Electrical Properties			
Dielectric Constant			
at 75°F (24°C)	-	7.25	4.35
Power Factor			
at 75°F (24°C)	-	9.25	7.58
DC Volume Resistivity			
at 75°F (24°C)	-		3.7 x 10 ohm-cm

Note: The material properties were obtained under controlled laboratory conditions. The data and information are intended as only a guide to be used at your discretion and risk. A.W. Chesterton specifically disclaims any and all direct and indirect damages or losses resulting from the use of any information, data, or products described.