



Spec. No.: AWC805
 Rev: F
 Effective Date: 05/31/06
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TITLE: AWC805 (Blue Polymer)

Typical Material Characteristics

Material: AWC805 -- 85A Blue Polymer

PROPERTY	TEST METHOD	BRITISH	METRIC
Tensile Strength	ASTM D-412	4,400 psi	30.4 MPa
100% Modulus	ASTM D-412	700 psi	4.8 MPa
300% Modulus	ASTM D-412	1,200 psi	8.2 MPa
Elongation at Break	ASTM D-412	580%	580%
Specific Gravity	ASTM D-297	1.08	1.08
Tear Strength (Die C)	ASTM D-624	400 lb/in	70 kN/m
Compression Set (Method B), After 22h at 70°C [158°F]	ASTM 395 (Type 1 Pellet, 25% Deflection)	35%	35%
Tear Strength (split)	ASTM D-470	85 lb/in	14.9 kN/m
Tear Strength (graves), Die C lb/in	ASTM D-624	400 lb/in	70 lb/in
Resilience (Rebound)	ASTM D-2632	50%	50%
Abrasion Resistance, NBS Index	ASTM D-630	200	200
Durometer	ASTM D-2240	85 Shore A	85 Shore A
Temperature Limit	-	212°F	100°C
Electrical Properties:			
Dielectric Strength at 75°F (24°C)	-	23.2 MV/m	590 volts/mil
Dielectric Constant at 75°F (24°C)	-	6.7	5.7
Power Factor at 75°F (24°C)	-	2.6	4.8
DC Volume Resistivity at 25°F (24°C)	-	-	1.5 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.