



Spec. No.: AWC520
 Rev: G
 Effective Date: 07/24/2014
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TITLE: AWC520, Aloymer 001 (Virgin PTFE)

Material Specification

Typical Material Characteristics

Material: AWC520, Aloymer 001 -- Virgin PTFE

PROPERTY	TEST METHOD	BRITISH	METRIC
Specific Gravity	ASTM D792	2.18	2.18
Tensile Strength	ASTM D638	3,500 psi	24.2 MPa
Tensile Elongation	ASTM D638	350%	350%
Compressive Strength	ASTM D695	1,150 psi (0.2% offset)	7.9 Mpa (0.2% offset)
Flexural Modulus	ASTM D790	97,000 psi	669.8 MPa
Hardness, Durometer	ASTM D2240	51 Shore D	51 Shore D
Coefficient of Friction:			
Static	-	0.04-0.05	0.04-0.05
Dynamic	-	0.08	0.08
Coefficient of Thermal Expansion	-	6.81-9.12 x 10 ⁻⁶ in/in/°F (from 78° to 200°-500°F)	6.81-9.12 x 10 ⁻⁶ in/in/°C (from 26° to 93°-260°C)
Deflection Temperature @ 264 psi	ASTM D648	212°F	100°C
Wear Factor (k)	-	2500 x 10 ⁻⁶ in ³ -min/ft-lb-hr	2500 x 10 ⁻⁶ in ³ -min/ft-lb-hr

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.