TITLE: AWC650 (Acetal)

Typical Material Characteristics

Material: AWC650 – Acetal (Copolymer) Color: Black or White

PROPERTY	TEST METHOD	BRITISH	METRIC
Specific Gravity	ASTM D792	1.41	1.41
Tensile Strength	ASTM D638	10,000 psi	69.0 MPa
Tensile Modulus of Elasticity	ASTM D638	400,000 psi	2761.9 MPa
Tensile Elongation	ASTM D638	30%	30%
Compressive Strength	ASTM D695	8,000 psi	55.2 MPa
Flexural Strength	ASTM D790	12,000 psi	88.9 MPa
Flexural Modulus	ASTM D790	400,000 psi	2761.9 MPa
Hardness, Rockwell	ASTM D785	M85 (R116)	M85 (R116)
Hardness, Durometer	ASTM D2240	D85	D85
Coefficient of Friction:			
Static	-	-	-
Dynamic	-	0.25	0.25
Coefficient of Thermal Expansion	-	5.4×10^{-5} in/in/°F	5.4×10^{-5} in/in/°C
Deflection Temperature @ 264 psi	ASTM D648	240°F	116°C
Continuous Service Temperature	-	180°F	82°C
Water Absorption Immersion, 24 Hours	ASTM D570	0.2% by wt.	0.2% by wt.
Water Absorption Immersion, Saturation	ASTM D570	0.9% by wt.	0.9% by wt.
Wear Factor (k)	-	200×10^{-10} in -min/ft-lb-hr	200×10^{-10} in -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.

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