



Spec. No.: AWC660  
 Rev: F  
 Effective Date: 05/31/06  
 Page: 1 of 1

**TITLE: AWC660 (Glass Filled Nylon – 40%)**

**Typical Material Characteristics**  
**Material: AWC660 -- 40% Glass Filled Nylon**

PROPERTY	TEST METHOD	BRITISH	METRIC
Specific Gravity	ASTM D792	1.49	1.49
Tensile Strength	ASTM D638	25,000 psi	172.6 MPa
Tensile Elongation	ASTM D638	2.50%	2.50%
Compressive Strength	ASTM D695	23,000 psi	158.8 MPa
Flexural Strength	ASTM D790	37,500 psi	258.9 MPa
Flexural Modulus	ASTM D790	1,400 psi	9.7 MPa
Hardness, Durometer	ASTM D2240	120 Rockwell R	120 Rockwell R
<b>Coefficient of Friction:</b>			
Static	-	0.24	0.24
Dynamic	-	0.31	0.31
<b>Coefficient of Thermal Expansion</b>	-	1.3	1.3
<b>Deflection Temperature @ 264 psi</b>	ASTM D648	400°F	204°C
<b>Water Absorption Immersion, 24 Hours</b>	ASTM D570	1.20%	1.20%
<b>Wear Factor (k)</b>	-	75 * 10 <sup>3</sup> in -min/ft-lb-hr	75 * 10 <sup>3</sup> 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.