

TECHNICAL PROPERTIES OF ZL™ 900 (Acetal Copolymer, Blue)

Property	Units	Test Method ASTM	Value
MECHANICAL PROPERTIES			
Specific Gravity	gm/cm ³	D-792	1.41
Tensile Strength 73 °F	psi	D-638	8,800
Tensile Modulus 73 °F	psi	D-638	400,000
Elongation, Break 73 °F	%	D-638	55
Flexural Strength 73 °F	psi	D-790	13,000
Flexural Modulus 73 °F	psi	D-790	400,000
Compressive Strength 73 °F	psi	D-695	15,000
Compressive Modulus	psi	D-695	400,000
Impact Strength, Notched 73 °F	ft-lbs/in	D-256	1.3
Hardness, Rockwell	R	D-785	R120 (M80)
Hardness, Durometer, Shore D	D	2240	D85
Shear Strength	psi	D-732	8,000
Coefficient of Friction, against steel	-	-	0.15
THERMAL PROPERTIES			
Deflection Temperature 66 psi	°F	D-648	316
264 psi	°F	D-648	205
Maximum Temperature - Long Term	°F	-	180
Maximum Temperature - Short Term	°F	-	-
Melting Point	°F		355
Coefficient of Linear Thermal Expansion	in/in/°F	D-696	5.4 x 10 ⁻⁵
Thermal Conductivity	Btu-in/hr-ft ² -°F	C-177	1.6
ELECTRICAL PROPERTIES			
Dielectric Strength	V/mil	D-149	2,100
Dielectric Constant 1 kHz	-	D-150	3.7
Dissipation Factor 1 kHz		D-150	-
Flammability		UL 94	HB
Volume Resistivity 73 °F	Ω.cm	D-257	10 ¹⁵
WATER ABSORPTION RATES			
Water Absorption at 73 °F 24 hours	%	D-570	0.22
Saturation	%	D-570	0.9

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