

## TECHNICAL PROPERTIES OF ZL™ 250 MO (Extruded Nylon 6/6, MoS<sub>2</sub>-filled)

Property		Units	Test Method ASTM	Value
<b>MECHANICAL PROPERTIES</b>				
Specific Gravity		gm/cm <sup>3</sup>	D-792	1.16
Tensile Strength	73 °F	psi	D-638	10,000 - 14,000
Tensile Modulus	73 °F	psi	D-638	480,000
Elongation, Break	73 °F	%	D-638	120
Flexural Strength	73 °F	psi	D-790	17,000
Flexural Modulus	73 °F	psi	D-790	460,000
Compressive Strength	73 °F	psi	D-695	16,000
Compressive Modulus		psi	D-695	420,000
Impact Strength, Notched	73 °F	ft-lbs/in	D-256	0.5
Hardness, Rockwell		R	D-785	R125
Hardness, Durometer, Shore D		D	2240	D85
Shear Strength		psi	D-732	10,500
Coefficient of Friction, against steel		-	-	0.20
<b>THERMAL PROPERTIES</b>				
Deflection Temperature	66 psi	°F	D-648	-
	264 psi	°F	D-648	200
Maximum Temperature - Long Term		°F	-	220
Maximum Temperature - Short Term		°F	-	-
Melting Point		°F		500
Coefficient of Linear Thermal Expansion		in/in/°F	D-696	4 x 10 <sup>-5</sup>
Thermal Conductivity		Btu-in/hr-ft <sup>2</sup> -°F	C-177	1.7
<b>ELECTRICAL PROPERTIES</b>				
Dielectric Strength		V/mil	D-149	350
Dielectric Constant	1 kHz	-	D-150	3.7
Dissipation Factor	1 kHz		D-150	0.02
Flammability			UL 94	V-2
Volume Resistivity	73 °F	Ω.cm	D-257	-
<b>WATER ABSORPTION RATES</b>				
Water Absorption at 73 °F	24 hours	%	D-570	1.0
	Saturation	%	D-570	7.0

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