



# Nylacast Nylube MO PA 6 C + Nylube Lubricant + MoS2

The combined Nylube lubrication system incorporating fine particles of molybdenum disulphide provides enhanced load bearing capabilities while retaining Nylube's excellent frictional characteristics.

PROPERTY	TEST METHOD	NOTES	METRIC UNITS		IMPERIAL UNITS	
<b>GENERAL</b>						
Colour				Black		Black
Density	ISO 1183:1987	Test Method A	g/cm <sup>3</sup>	1.145	lb/inch <sup>3</sup>	0.041
Moisture Absorption (Equilibrium)	ISO 62:1999	50% RH, 23C	%	-	%	-
Water Absorption (24 Hours)	ISO 62:1999 (modified)	Immersion, 23C	%	-	%	-
Water Absorption (Saturation)	ISO 62:1999	Immersion, 23C	%	-	%	-
<b>MECHANICAL</b>						
Tensile strength	ISO 527-1/2:1993	Sample Type 1B, 50mm min <sup>-1</sup>	MPa	85	psi	12328
E-modulus	ISO 527-1/2:1993	Sample Type 1B, 50mm min <sup>-1</sup>	MPa	4200	psi	609160
Elongation at break	ISO 527-1/2:1993	Sample Type 1B, 50mm min <sup>-1</sup>	%	>20	%	>20
Compressive Strength	ISO 604:2002	Sample Type B, 5mm min <sup>-1</sup>	MPa	100	psi	14504
Compressive Modulus	ISO 604:2002	Sample Type A, 1mm min <sup>-1</sup>	MPa	2800	psi	406107
Flexural Strength*	ISO 178:2001	1.5mm min <sup>-1</sup>	MPa	110	psi	15954
Flexural Modulus	ISO 178:2001	1.5mm min <sup>-1</sup>	MPa	3500	psi	507633
Izod Impact Strength	ISO 180:2000	Sample Type A (Notched)	KJ/m <sup>2</sup>	6.00	ft.lb/in <sup>2</sup>	2.86
Charpy Impact Strength	ISO 179-2:1999	Notched	KJ/m <sup>2</sup>	-	ft.lb/in <sup>2</sup>	-
Hardness (Shore D)	ISO 868:2003		-	85	-	85
Coefficient of Friction (Dynamic)		31.4m/min, 1.75MPa	-	0.12	-	0.12
Limiting PV			MPa/m.min	-	psi.ft/min	-
Wear Rate		31.4m/min, 1.75MPa	mg/km	0.08	-	-
K-Factor		31.4m/min, 1.75MPa	mm <sup>3</sup> /Nm	0.91 x 10 <sup>-6</sup>	in <sup>3</sup> .min./ft.lb.hr	0.45 x 10 <sup>-9</sup>
<b>THERMAL</b>						
Melting Temperature	-		°C	-	°F	428
Glass Transition Temperature (T <sub>g</sub> )	ISO 11359-2:1999		°C	-	°F	-
Heat Deflection Temperature HDT/A	ISO 75	1.80MPa	°C	-	°F	-
Heat Deflection Temperature HDT/B	ISO 75	0.45MPa	°C	-	°F	-
Maximum Intermittent Service Temperature	-		°C	185	°F	365
Maximum Continuous Service Temperature	-	5000hrs	°C	115	°F	239
Minimum Intermittent Service Temperature	-		°C	-100	°F	-148
Minimum Continuous Service Temperature	-		°C	-40	°F	-40
Coefficient of Linear Thermal Expansion (TMA)	ISO 11359-2:1999	23°C - 55°C	°C <sup>-1</sup>	8 x 10 <sup>-5</sup>	°F <sup>-1</sup>	4.44 x 10 <sup>-5</sup>
Thermal Conductivity	ISO 8301:1991	Mean T = 20°C	W/m.°C	-	BTU in/ft.hr.°F	-
Flammability	IEC 60695-11-10:2003-08		-	HB	-	HB
<b>ELECTRICAL</b>						
Dielectric Constant	IEC 60250:1969-01	1MHz	-	3.7	-	3.7
Dielectric Constant (Low Frequency)		100Hz	-	4	-	4
Dissipation Factor	IEC 60250:1969-01	100 Hz	Hz	-	Hz	-
Dielectric Strength	IEC 60243-1:1998-01		kV/mm	29	kV/in	736.6
Volume Resistivity	IEC 60093:1980-01		ohm.m	5 x 10 <sup>13</sup>	ohm.in	3.93 x 10 <sup>18</sup>
Surface Resistivity ROA	IEC 60093:1980-01		ohm	5 x 10 <sup>12</sup>	ohm	5 x 10 <sup>12</sup>
Comparative Tracking Index	IEC 60112:2003-01		CTI	604	CTI	604

## AVAILABILITY

**ROD:** 10mm - 500mm DIA



**PLATE:** 6mm - 120mm THICK



**TUBE:** 45mm - 1500mm



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