



NYLACAST NYLUBE GF PA 6 C + Nylube lubricant + glass

For applications requiring higher compressive strength the NYLUBE GF masterbatch incorporates hollow glass ovule, designed to float and evenly distribute through the polymerising polymer. The glass additive allows the material to operate at higher maximum service temperatures while the wax counteracts the deteriorating surface slip characteristics making this product an outstanding abrasion and temperature resistant material at high loads.

PROPERTY	TEST METHOD	NOTES	METRIC UNITS		IMPERIAL UNITS	
GENERAL						
Colour				Black		Black
Density	ISO 1183:1987	Test Method A	g/cm ³	1.140	lb/inch ³	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	%	-	%	-
MECHANICAL						
Tensile strength	ISO 527-1/2:1993	Sample Type 1B, 50mm min ⁻¹	MPa	70	psi	10153
E-modulus	ISO 527-1/2:1993	Sample Type 1B, 50mm min ⁻¹	MPa	3000	psi	435113
Elongation at break	ISO 527-1/2:1993	Sample Type 1B, 50mm min ⁻¹	%	> 10	%	> 10
Compressive Strength	ISO 604:2002	Sample Type B, 5mm min ⁻¹	MPa	105	psi	15229
Compressive Modulus	ISO 604:2002	Sample Type A, 1mm min ⁻¹	MPa	3000	psi	435113
Flexural Strength*	ISO 178:2001	1.5mm min ⁻¹	MPa	115	psi	15954
Flexural Modulus	ISO 178:2001	1.5mm min ⁻¹	MPa	3000	psi	435113
Izod Impact Strength	ISO 180:2000	Sample Type A (Notched)	KJ/m ²	4.50	ft.lb/in ²	2.14
Charpy Impact Strength	ISO 179-2:1999	Notched	KJ/m ²	-	ft.lb/in ²	-
Hardness (Shore D)	ISO 868:2003		-	-	-	-
Coefficient of Friction (Dynamic)		31.4m/min, 1.75MPa	-	-	-	-
Limiting PV			MPa/m.min	-	psi.ft/min	-
Wear Rate		31.4m/min, 1.75MPa	mg/km	-	-	-
K-Factor		31.4m/min, 1.75MPa	mm ³ /Nm	-	in ³ .min./ft.lb.hr	-
THERMAL						
Melting Temperature	-		°C	220	°F	428
Glass Transition Temperature (T _g)	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	190	°F	374
Maximum Continuous Service Temperature	-	5000hrs	°C	120	°F	248
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 ⁻¹	8 x 10 ⁻⁵	°F ⁻¹	4.44 x 10 ⁻⁵
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
ELECTRICAL						
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	25	kV/in	635
Volume Resistivity	IEC 60093:1980-01		ohm.m	1 x 10 ¹³	ohm.in	3.93 x 10 ¹⁶
Surface Resistivity ROA	IEC 60093:1980-01		ohm	1 x 10 ¹²	ohm	3 x 10 ¹²
Comparative Tracking Index	IEC 60112:2003-01		CTI	600	CTI	600

AVAILABILITY

ROD: 45mm - 500mm DIA



PLATE: 6mm - 120mm THICK



All information contained in this literature corresponds with our current knowledge of the products. Nylacast assume no liability whatsoever in respect of application, conversion or use made of the aforementioned information or products, or any consequence thereof. The buyer undertakes all liability in respect of the application, conversion or use of the aforementioned information or products. Existing intellectual property rights must be observed and Nylacast reserve the right to make technical alterations.

UK ☎ 44 (0) 116 276 8558 [Fax] 44 (0) 116 274 1954

UK e-mail: sales@nylacast.com website: www.nylacast.com