

NYLACAST NYLUBE

PROPERTY	TEST METHOD	NOTES	METRIC	UNITS	IMPERIAL	UNITS
GENERAL						
Colour	-	-	-	Dark Red	-	Dark Red
Density	ISO 1183:1997	Test Method A	g/cm3	1.141	lb/inchE3	0.041
Moisture Absorption (Equilibrium)	ISO 62:1999 (modified)	50% RH, 23°C	%	2	%	2
Water Absorption @24 hrs	ISO 62:1999 (modified)	Immersion @ 23°C	%	0.2	%	0.2
Water Absorption @24 hrs Saturation	ISO 62:1999	Immersion @ 23°C	%	5.9	%	5.9
MECHANICAL						
Tensile Strength at Yield E-modulus	ISO 527-1/2:1993	Sample Type 1B, 50mm/min	MPa	80-90	psi	12.8k
	ISO 527-1/2:1993	Sample Type 1B, 50mm/min	MPa	3600-4000	psi	596k
Elongation at Break	ISO 527-1/2:1993	Sample Type 1B, 50mm/min	%	>30	%	>30
Compressive Strength	ISO 604:2002	Sample Type B, 5mm/min	MPa	105-125	psi	14.7k
Compressive Modulus	ISO 604:2002	Sample Type A, 1mm/min	MPa	2500-2700	psi	377k
Flexural Strength	ISO 178:2001	1.5mm/min	MPa	115-125	psi	15.9k
Flexural Modulus	ISO 178:2001	1.5mm/min	MPa	3350-3600	psi	486k
Izod Impact Strength	ISO 180:2000	Sample Type A (notched)	kJ/mm2	5.5-7.0	ft.lb/inE2	3.5
Dynamic Coefficient of Friction	-	31.4m/min, 1.75MPa	-	0.075	-	0.075
Limiting PV	-	-	MPa/m	100	psi.ft/min	2.9k
K-Factor (wear factor)	-	31.4m/min, 1.75MPa	mm3/N	3.9x10E-6	-	1.9x10E4
Hardness (Shore D)	ISO 868: 2003	Scale D	m Shore	83	Shore D	83
THERMAL						
Melting Temperature, Tg	-	-	°C	222	°F	433
Glass Transition Temperature	ISO 11359:1999	-	°C	65	°F	149
Heat Deflection Temperature, HDT/A	ISO 75	1.80MPa	°C	75	°F	167
Maximum/Minimum Continuous Service Temperatures	-	-	°C	110/-40	°F	230/-40
Maximum/Minimum Intermittent Service Temperatures	-	-	°C	180/-100	°F	356/-148
Temperatures Coefficient of Linear Thermal Expansion	ISO 11359-2:1999	23-55°C	°C-1	8x10E-5	°F,E-1	4.4x1-E-5
Thermal Conductivity	ISO 8301:1991	Mean T = 20°C	W/moC	0.25	°F	0.15
Flammability	IEC 60695-11-10:2003-08	-	-	HB	-	HB
ELECTRICAL						
Dielectric Constant	IEC 60250:1969-01	1 & 100 Hz	-	3.7 & 4	-	3.7 & 4
Dissipation Factor	IEC 60250:1969-01	100 Hz	-	0.013	-	0.013
Dielectric Strength	IEC 60243:-1:1998-01	-	kV/m	25	kV/in	635
Volume Resistivity	IEC 60093:1980-01	-	ohm.m	>1x10E13	ohm.m	4x10E14
Surface Resistivity	IEC 60093:1980-01	-	ohm.m	>1x10E12	ohm.m	>1x10E12
Comparative Tracking Index	IEC 60112:2003-01	-	CTI	600	CTI	600

PRODUCT AVAILABILITY	NOTES
Rod10mm-500mm DIA Tube50mm-1000mm	<ul style="list-style-type: none"> All information contained in this literature correspond 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 product, or any consequence thereof. The buyer undertakes all liability in respect of the application, conversion or use of the aforementioned information or product. Existing intellectual property rights must be observed and Nylacast reserve the right to make technical alterations.
OD Plate6mm-100mm THICKNESS Custom	
CastingsBespoke	
Cut to sizeAvailable upon request	