

NYLACAST OILON

PROPERTY	TEST METHOD	NOTES	METRIC	UNITS	IMPERIAL	UNITS
GENERAL						
Colour	-	-	-	Green	-	Green
Density	ISO 1183:1997	Test Method A	g/cm3	1.138	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	%	6.1	%	6.1
MECHANICAL						
Tensile Strength at Yield E-modulus	ISO 527-1/2:1993	Sample Type 1B, 50mm/min	MPa	74-78	psi	11.5k
	ISO 527-1/2:1993	Sample Type 1B, 50mm/min	MPa	3500-3700	psi	580k
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	110-120	psi	14.7k
Compressive Modulus	ISO 604:2002	Sample Type A, 1mm/min	MPa	2100-2500	psi	392k
Flexural Strength	ISO 178:2001	1.5mm/min	MPa	105-125	psi	15.3k
Flexural Modulus	ISO 178:2001	1.5mm/min	MPa	3300-3600	psi	478k
Izod Impact Strength	ISO 180:2000	Sample Type A (notched)	kJ/mm2	5.0-6.5	ft.lb/inE2	2.9
Dynamic Coefficient of Friction	-	31.4m/min, 1.75MPa	-	0.089	-	0.089
Limiting PV	-	-	MPa/m	100	psi.ft/min	2.9k
K-Factor (wear factor)	-	31.4m/min, 1.75MPa	mm3/N	2.2x10E-5	-	1.0x10E4
Hardness (Shore D)	ISO 868: 2003	Scale D	m Shore	82	Shore D	82
THERMAL						
Melting Temperature, Tg	-	-	°C	222	°F	432
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	170/-100	°F	338/-148
Temperatures Coefficient of Linear Thermal Expansion	ISO 11359-2:1999	23-55°C	°C-1	8x10E-5	°F,E-1	4.4x10E-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	-	0.014	-	0.014
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
Rod10mm-500mm DIA
Tube50mm-1000mm OD
Plate6mm-100mm THICKNESS
Custom CastingsBespoke
Cut to sizeAvailable upon request

NOTES
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