

NYLACAST NYLANITE

PROPERTY	TEST METHOD	NOTES	UNITS	METRIC
GENERAL				
Colour	-	-	-	Grey
Density	ISO 1183:1997	Test Method A	g/cm ³	1.38
Water absorption @24 hours	ISO 62:1999 (modified)	Immersion @ 23°C	%	0.06
Water absorption to full saturation	ISO 62:1999	Immersion @ 23°C	%	0.3
MECHANICAL				
Tensile Strength	ISO 527-1/2:1993	Sample Type 1B, 50mm/min	MPa	75-80
E-modulus	ISO 527-1/2:1993	Sample Type 1B, 50mm/min	MPa	3400-3600
Elongation at Break	ISO 527-1/2:1993	Sample Type 1B, 50mm/min	%	>20
Compressive Strength	ISO 604:2002	Sample Type B, 5mm/min	MPa	95-120
Compressive Modulus	ISO 604:2002	Sample Type A, 1mm/min	MPa	2100-2700
Flexural Strength	ISO 178:2001	1.5mm/min	MPa	105-125
Flexural Modulus	ISO 178:2001	1.5mm/min	MPa	3300-3600
Izod Impact Strength	ISO 180:2000	Sample Type A (notched)	kJ/m ²	4.5-6.0
Coefficient of Friction (Dynamic)	-	31.4m/min, 1.75MPa	-	0.16
Hardness (Shore D)	ISO 868: 2003	-	MPa.m/s	100
THERMAL				
Melting Temperature, Tg	-	-	°C	247.94
Heat Deflection Temperature, HDT/A	ISO 75	1.80MPa	°C	-
Maximum Continuous Service Temperatures	-	5000hrs	°C	100
Minimum Intermittent Service Temperatures	-	-	°C	150
Minimum Intermittent Service Temperatures	-	-	°C	-60
Minimum Continuous Service Temperatures	-	-	°C	-
Coefficient of Linear Thermal Expansion	ISO 11359-2:1999	23 - 55°C	°C ⁻¹	6x10 ⁻⁵
Flammability	IEC 60695-11-10:2003-08	-	-	HB
ELECTRICAL				
Dielectric Constant	IEC 60250:1969-01	1 MHz	-	3.7
Dielectric Constant (Low Frequency)	-	100 Hz	-	4
Dielectric Strength	IEC 60243-1:1998-01	-	kV/m	25
Comparative Tracking Index	IEC 60112:2003-01	-	CTI	600

PRODUCT AVAILABILITY

Rod	16mm-100mm DIA
Tube	50mm-100mm OD
Cut to size	Available upon request

NOTES

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