NYLACAST NATURAL 6

TECHNICAL DATA

ROPERTY	TEST METHOD	VALUE
Tensile Strength 23ºC	ASTM D638	740-920 kg/cm^2
Modulus of elasticity 23ºC	ASTM D638	24-31,000kg/cm^2
Elongation at break 23ºC	ASTM D638	= 40%
Hardness durometer 23ºC	ASTM D1706	80-85 Shore D
Flexural Strength 23ºC	BS303	1,050 - 1,100 kg/cm^2
Deformation under Load 140 kgf/cm^2 at 50ºC	ASTM D621	0.5 – 1.0% after 24 hours
Impact Strength (Izod) 23ºC	ASTM D256	4.6 – 5.4 kgf cm/cm notch
Specific Gravity	ASTM D570	1.13 - 1.14
Water Absorption 23ºC @ 24 hrs	ASTM D570	0.8-1.4%
Water Absorption Saturation	-	<7%
Coefficient of linear thermal expansion 30-100ºC	ASTM D696	6.5x10^{-5} cm/cm per ºC
Heat deflection temp Method A	DIN 53461	70/90ºC
Heat deflection temp Method B	DIN 53461	>170ºC
General service temp. Short Temp]	Depending on shape	-40 / +150ºC
General service temp. Long Temp]	Stress & function	-40 / +120ºC
Melting Point	ASTM D789	220 – 225ºC
Flammability	ASTM D635	Self extinguishing
Burning Rate	UL94	V – 2
Deflection Temp 4.6 kgf/cm^2	ASTM D648	155 - 165ºC
Permitivity 50-16x10^6 Hz (cycles/sec)	ASTM D150	3.7
Dissipation Factor 50-16x10^6 Hz (cycles/sec)	ASTM D150	0.02
Dielectric Strength Short Term 0.5mm thick	ASTM D149	>20 kV/mm
Volume resistivity	ASTM D257	>10^{12} ohm/cm
U.V. effect – long term	-	Slight discolouration
Coefficient of friction	Nylon/Steel	0.40
Grade Colour	-	Cream/White

Unless otherwise indicated, all property values are based on tests performed on standard ASTM test samples, and according to standard ASTM test methods.
The information is presented in good faith, but is to be used as a guide only.
No other guarantee is implied.

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