

PRODUCT INFORMATION SHEET

Nylon Hex Set Screws

Description:

Nylon fixings are ideal for those environments where metal fixings can't be used. Nylon fixings won't rust and are inert to most chemicals making them ideal for use in harsh chemical environments such as near swimming pools.

Being non-magnetic & non-conductive, nylon is also one of the few fixing materials which is safe to use in areas containing sensitive electronic equipment. Finally, with their sanitary properties they're also suitable for hygienic environments such as food processing areas.



Order Code	Size (mm)	Box Qty
14500	M6 x 12	100
14501	M6 x 25	100
14502	M6 x 50	100
14503	M6 x 70	100
14504	M8 x 16	100
14505	M8 x 25	100
14506	M8 x 50	100
14507	M10 x 20	100
14508	M10 x 30	100
14509	M10 x 50	100
14510	M10 x 70	100
14511	M12 x 25	25
14512	M12 x 50	25
14513	M12 x 70	25

PRODUCT INFORMATION SHEET

Technical Information:

Physical Properties	Value	Unit	Method of verification
Density:	1.14	g/cm ³	ISO 1183
Moisture pick-up till saturation (in normal climate 23 °C) :	2.4	%	ISO 62
Moisture pick-up till saturation (in normal climate 23 °C) :	8	%	ISO 62

Mechanical properties	Value	Unit	Method of verification
Tensile stress at yield (v = 50 mm/min):	90	N/mm ²	ISO 527-2
Tensile stress at break (v = 5 mm/min):	-	N/mm ²	ISO 527-2
Nominal percentage elongation at break:	> 40	%	ISO 527-2
Tensile modulus of elasticity:	3100	N/mm ²	ISO 527-2
Flexural modulus of elasticity:	2800	N/mm ²	ISO 178
Ball indentation hardness (value at 30 s):	160	N/mm ²	ISO 2039-1
Rockwell hardness:	M 88	-	ISO 2039-2
Charpy impact strength (23 °C) :	n. br. **	kJ/m ²	ISO 179/1eU
Charpy impact strength - notched (23 °C) :	6	kJ/m ²	ISO 179/1eA

Thermal properties	Value	Unit	Method of verification
Temperature for using in air (maximum):	180	°C	Max. short term
Temperature for using in air (maximum):	95	°C	Max. lasting
Temperature for using in air (minimum):	-30	°C	-
Heat distortion temperature (HDT A process):	85	°C	ISO 75-2
Coefficient of linear expansion, at length (23-60)°C :	0.8·10 ⁻⁴	1/K	DIN 53752
Thermal conductivity (23 °C):	0.28	W/(K·m)	DIN 52612
Flammability according UL standard:	V2 ***	Grade	UL 94
Vicat softening temperature (VST/B/50):	-	°C	ISO 306
Melting point DSC (10 K/min):	260	°C	ISO 3146

Electrical properties	Value	Unit	Method of verification
Specific volume resistivity:	1012	Ω·m	IEC 60093
Specific surface resistivity:	1013	Ω	IEC 60093
Dielectric factor (at 1 MHz)*:	3.3	-	IEC 60250
Dielectric factor (at 100 Hz)*:	3.8	-	IEC 60250
Dissipation factor (at 1 MHz)*:	0.020	-	IEC 60250
Dissipation factor (at 100 Hz)*:	0.013	-	IEC 60250
Dielectric strength K20/K20:	27	kV/mm	IEC 60243-1
Comparative tracking index (CTI):	600	-	IEC 60112

All data provided is correct at the time of print, but is subject to change by Kernow Fixings; please contact one of the Kernow team on 01726 624600 or sales@kernow-how.com to obtain the latest product information at the time of purchase.