



# NYLON

Natural Nylon HEC  UNC HEX SET SCREW BS66PC	Natural Nylon DIN 933  METRIC HEX SET SCREW BS66PCM	Natural Nylon HEC  UNC HEX BOLT BH66PC	Natural Nylon DIN 931  METRIC HEX BOLT BH66PCM	Natural Nylon DIN 963  METRIC CSK SLOT SCREW MS66CSM	Natural Nylon HEC  UNC CSK SLOT SCREW MS66CS	Natural Nylon DIN 84  METRIC CHEESE SLOT SCREW MS66ESM
Natural Nylon HEC  UNC ROUND SLOT SCREW MS66OS	Natural Nylon HEC  UNC SLOT FILLISTER SCREW MS66LS	Natural Nylon DIN 316  METRIC WING SCREW MS66PWM	Natural Nylon DIN 7985  BINDER HEAD PHILLIPS SCREW MS66BPM	Natural Nylon DIN 913  METRIC HEX SOCKET GRUB SCREW SG66PCM	Natural Nylon DIN 551  SLOTTED SOCKET GRUB SCREW SG66PSM	Natural Nylon DIN 912  METRIC SOCKET HEAD CAP SCREW SH66PCM
Natural Nylon HEC  UNC ALLTHREAD ROD AN66PC	Natural Nylon DIN 975  METRIC ALLTHREAD ROD AN66PCM	Natural Nylon HEC  UNC HEX NUT NH66P	Natural Nylon DIN 934  METRIC HEX NUT NH66PCM	Nylon Black UV Stable HEC  METRIC HEX THIN NUT NL66UCM	Natural Nylon HEC  UNC WING NUT NW66PC	Natural Nylon DIN 315  METRIC WING NUT NW66PCM
Natural Nylon HEC  UNC DOME HEX NUT ND66P	Natural Nylon Form A  METRIC DOME HEX NUT ND66PAM	Natural Nylon DIN 1587  METRIC DOME HEX NUT ND66PCM	Natural Nylon HEC  METRIC HEX FLANGE NUT NF66PCM	Natural Nylon HEC  SPACER ROUND SR66P	Nylon Black UV Stable HEC  SPACER ROUND SR66U	Natural Nylon HEC  METRIC SCREW INSULATOR WB66PIM



# NYLON

<p><b>Natural Nylon Flat Round + Taper</b></p> <p><b>METRIC ANTI-LOSS WASHER</b></p> <p>WR66PAM</p>	<p><b>Natural Nylon HEC</b></p> <p><b>METRIC CUP WASHER</b></p> <p>WR66PCM</p>	<p><b>Natural Nylon Locking + Sealing</b></p> <p><b>METRIC HUBO™ WASHER</b></p> <p>WR66PHM</p>	<p><b>Natural Nylon HEC</b></p> <p><b>METRIC FLAT ROUND WASHER</b></p> <p>WR66PM</p>	<p><b>Natural Nylon HEC</b></p> <p><b>IMPERIAL FLAT ROUND WASHER</b></p> <p>WR66P</p>	<p><b>Nylon Black UV Stable HEC</b></p> <p><b>METRIC WASHER</b></p> <p>WR66UM</p>	<p><b>Natural Nylon HEC</b></p> <p><b>METRIC HOLDING WASHER</b></p> <p>WR66POM</p>
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**Natural Nylon HEC**

**BUSHING WASHER**

WB66PSM

## Electrical Properties

	PA	PA	PP	POM	PE	PVDF
<b>Transversal resistance</b> ohm.cm	10 <sup>12</sup>	10 <sup>15</sup>	10 <sup>17</sup>	10 <sup>15</sup>	10 <sup>17</sup>	10 <sup>14</sup>
<b>Dielectric strength</b> Kv/mm	30	60	50	20	50	20

## Resistance Chart

	<b>Good Resistance</b>
	<b>Limited Resistance</b>
	<b>Not Resistant</b>

## Types of Polymer

### Glass Fibre Reinforced Nylon (GFR PA6.6):

Same properties as PA6.6 with enhanced mechanical properties of tensile strength, fatigue strength, impact strength, friction and abrasion resistance.

### Polypropylene (PP)

Polypropylene is very resistant to fatigue and complies with food standards. A major use is in piping systems where rigidity and resistance to corrosion and chemical leaching are required.

### Polyethylene (PE)

Is the most widely used plastic in the world with annual production of approximately 80 million tonnes and is used extensively in packaging applications such as foam, shrink wrapping and plastic bags.

### Polycarbonate (PC)

It is a very durable transparent material with high impact resistance but low scratch resistance.

### Polyvinylidene Fluoride (PVDF)

Is a highly non-reactive thermoplastic fluoropolymer. It has excellent resistance to solvents and acids.

### Acetal (POM)

Acetal resins are odourless, tasteless and non-toxic. Acetal is widely used in the automotive, electrical, machinery, equipment and watch making industries.

### Polyamide Nylon (PA, PA6.6, 66)

Is the standard polymer used in the Hobson range of fasteners and is recognised worldwide for being the most suitable material for fasteners. It offers excellent filling qualities and hence is easily moulded even into very difficult long shapes such as threaded rod.

It provides good toughness, tensile strength and resistance to creep, particularly in the high temperature range. Nylon has excellent wear properties, low coefficient of friction and exceptional chemical resistance to aromatic hydrocarbons, greases and oils.

Nylon is a hygroscopic material which has a tendency to absorb water or moisture from the surrounding environment. The amount of absorption will depend on the environmental conditions. When water or moisture is absorbed by Nylon, it behaves like a plasticizer in plastics reducing the tensile strength, stiffness; and increasing elongation, impact strength and energy absorbing characteristics.

Outdoor weathering can be improved by the addition of carbon black. Nylon will perform well in long range service in most applications. Nylon is a translucent to off white in colour. Depending on the raw material used, there will always be slight colour differences from bright white to a very dull off white to light grey.

	PVDF	PC	PA6 / 6.6 / 66	PP	POM	PE - LD	PE - HD	Material
								<b>Substances</b>
								Cold Water
								Hot Water
								Diluted acid
								Concentrated acid
								Oxidized acid
								Hydrofluoric acids
								Diluted potassium
								Concentrated potassium
								Inorganic bases
								Dry halogen
								Hydrocarbons
								Hydrocarbons (chlorinated)
								Alcohols
								Ester
								Ketone
								Ether
								Aldehyde
								Amino acids
								Organic acids
								Aromatic hydrocarbons
								Petrol
								Mineral oils
								Greases and oils
								Hydrocarbons (non-saturated chlorinated)
								Oil of turpentine
0.03	0.1 - 0.2	1.3 - 1.9	0.01 - 0.03	0.22 - 0.25	<0.01	<0.01	<0.01	Humidity absorption % to ASTM d 570