

## TECHNICAL DATA

Recommended maximum safe vertical working loads for Bluemay Nylon Threaded Rod, Buffalo Bolts and T-nut Connectors:

<b>M6 – 30kg</b>	<b>M10 – 80kg</b>	<b>M16 – 165kg</b>
<b>M8 – 50kg</b>	<b>M12 – 120kg</b>	<b>M20 – 215kg</b>

Temperature range from +50°C to -30°C.

*Please note: figures quoted are for vertical loads only – no data is available for inclined or horizontal loads.*

## TIGHTENING AND USE OF NUTS

Care should be taken not to overtighten nuts when used with thermoplastic threaded rod.  
NUTS SHOULD BE TIGHTENED BY HAND AND GIVEN HALF A TURN WITH A SPANNER.

WE DO NOT RECOMMEND THE USE OF STEEL NUTS WITH THERMOPLASTIC THREADED ROD OR BOLTS.

## MECHANICAL

Property	Dry Temp.	Units	Nylon 6.6
Tensile strength	23°C	N/mm <sup>2</sup>	62 – 83
Elongation	23°C	%	20 – 200
Modulus of elasticity	23°C	N/mm <sup>2</sup>	1733 – 2744
Hardness: Rockwell	23°C		R112 – R120
Hardness: Durometer	23°C		D80 – D85
Flexural strength	23°C	N/mm <sup>2</sup>	86 – 97
Deformation under load 14N/mm <sup>2</sup> after 24hrs	50°C	%	1.0 – 3.0
Impact – Izod Notched at 50% RH	23°C	J/m	110

## THERMAL

Property	Units	Nylon 6.6
Coefficient of linear thermal expansion	10 <sup>-6</sup> /K	100
Melting point	°C	260
Flammability		Self-extinguishing
Coefficient of thermal conductivity	W/K.m	0.24
Deflection temperature: at 0.5N/mm <sup>2</sup>	°C	203
Deflection temperature: at 1.8N/mm <sup>2</sup>	°C	60