



Bluemay

TECHNICAL DATA

MECHANICAL

Property	Dry temp.	Units	Nylon 66
Tensile strength	23°C	N/mm ²	62 - 83
Elongation	23°C	%	20 - 200
Modulus of elasticity	23°C	N/mm ²	1733 - 2744
Hardness:			
Rockwell	23°C		R112 - R120
Durometer	23°C		D80 - D85
Flexural strength	23°C	N/mm ²	86 - 97
Deformation under load 14N/mm ² after 24hrs	50°C	%	1.0 - 3.0
Impact - Izod Notched at 50% RH	23°C	J/m	110

THERMAL

Property	Units	Nylon 66
Coefficient of linear thermal expansion	10 ⁻⁶ /K	100
Melting point	°C	260
Flammability		Self-extinguishing
Coefficient of thermal conductivity	W/K.m	0.24
Deflection temperature:		
at 0.5N/mm ²	°C	203
at 1.8N/mm ²	°C	60

WORKING LOADS

Recommended maximum safe vertical working loads for
Bluemay Nylon Threaded Rod and Buffalo Bolts:

M6-30kg M8-50kg M10-80kg M12-120kg M16-165kg M20-215kg

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 A HALF TURN WITH A SPANNER.

DO NOT USE STEEL NUTS WITH THERMOPLASTIC THREADED ROD OR BOLTS.