

VescoNylon - Typical Properties

Polyamide (Nylon 6) with exceptional strength and wear resistance.

	METRIC	IMPERIAL
Tensile strength (dry)	75 MPa	10,900 psi
Tensile strength (wet - 9%)	20 MPa	2,900 psi
Flexural modulus (dry)	2.5 GPa	363,000 psi
Flexural modulus (wet - 9%)	0.5 GPa	73,000 psi
Max water absorption at ambient 65% RH	9%	
Coefficient of thermal expansion	9×10^{-5} mm/mm °C	5×10^{-5} in/in. °F
Intermittent temperature rating	100°C	210°F
Design loading (dry)	30 MPa	4,400 psi
Design loading (wet - 9%)	10 MPa	1,500 psi
PV limit	3 MPa m/min	17,000 psi.in/min

Moisture Absorption: Gradually absorbs water from the air or when immersed which leads to swelling of up to 3%.

Clearances: Substantial clearances are advised for nylon bushes, from 2% to 5% of the wall thickness, with a minimum of 0.2mm.

Press fit: 0.1mm plus 0.1% of the bush diameter.

Machining tolerance: 0.3% of all dimensions.

Nylon will expand by 1% for every 3% increase in moisture.

The above data should be taken for indicative purposes. Physical properties may be altered to some extent by processing conditions.