



dynamica
rope



Physical Properties of Dyneema Fibers

Water and chemicals

Moisture regain	none
Boiling water shrinkage	<1%
Attack by water	none
Resistance to acids	excellent
Resistance to alkali	excellent
Resistance to most chemicals	excellent
Resistance to UV light	very good

Thermal

Melting point	144 - 152°C
Thermal conductivity (along fiber axis)	20 W/mK
Thermal expansion coefficient	-12.10 ⁻⁶ per K

Electrical

Resistance	10 ¹⁴ Ohm
Dielectric strength	900 kV/cm
Dielectric constant (22°C, 10 GHz)	2.25
Loss tangent	2.10 ⁻⁴

Mechanical

Creep (22°C, 20% load)	1.10-2 % per day
Axial tensile strength	3 GPa
Axial tensile modulus	100 GPa
Axial compressive strength	0.1 GPa
Axial compressive modulus	100 GPa
Transverse tensile strength	0.03 GPa
Transverse modulus	3 GPa

*Stronger
than Steel*



DYNAMICA rope is the most compact Dyneema rope in the world.

DYNAMICA rope is coated with a unique coating that ensures shape stability and increased abrasion resistance for longer working life.

The rope is heatset under tension to ensure maximum strength, durability and uniformity.