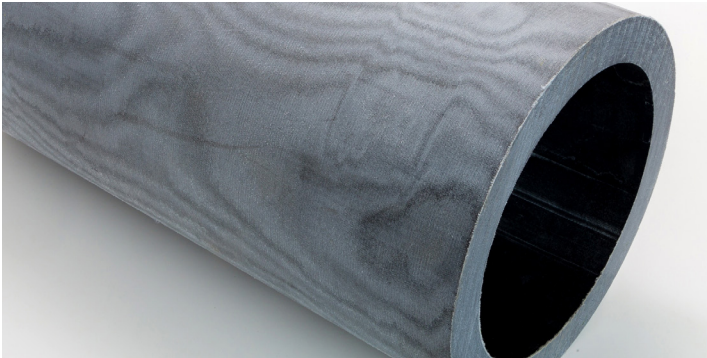


MATERIAL GRADE: TA 200



DESCRIPTION

Tribotech's high grade composite materials are manufactured from technical fabrics impregnated with polyester resin and dispersed solid lubricants. Offering superior dimensional stability, compression strength, and lifespan, these materials lend themselves to countless profiles and configurations. By varying the resin additives and fabric reinforcement, the resin matrix can be specifically designed to meet the demands of different environments and applications.

TA 200 features fabric-reinforced polyester resin composite with graphite lubrication. TA 200 is ideal for applications requiring electrical conductivity. Additionally, the graphite additive's superior performance in water deems TA 200 ideal for water-lubricated or exposed applications. Self-lubricating and maintenance-free, while also tough, durable, and extremely versatile, TA 200 is an excellent alternative to bronze and thermoplastic materials.

SAMPLE APPLICATIONS

- » Hydraulic cylinders
- » Oil & Gas bushing and thrust washer applications
- » On-deck Marine applications
- » General industrial bushing applications

MATERIAL BENEFITS

- » Self-lubricating
- » Low friction
- » Excellent load-bearing capability
- » No metallic scoring
- » Negligible water swell
- » Easily machined to precision tolerances
- » Wide range of sizes and profiles

MECHANICAL PROPERTIES

Temperature Range	-40 to +250° F	-40 to +120° C
Compression Strength [breaking point]		
Normal to Laminate	45,000 psi	310 N/mm ²
Parallel to Laminate	13,000 psi	90 N/mm ²
Tensile Strength	14,000 psi	96 N/mm ²
Shear Strength	9,000 psi	62 N/mm ²
Hardness – Rockwell M	90	
Density	1.25g/cm ³	
Swell in Water % of wall thickness	<0.15%	
Thermal Expansion Coefficient		
Normal to Laminate	68° F to 212° F	20° C to 100° C
Parallel to Laminate	5.0 to 5.5 x 10 ⁻⁵	9.0 to 10.0 x 10 ⁻⁵
Parallel to Laminate	2.7 to 3.3 x 10 ⁻⁵	5.0 to 6.0 x 10 ⁻⁵
Coefficient of Friction		
Static	0.15	
Dynamic	0.13	

TUBE STOCK Available Sizes

Minimum ID	3/8"	9.5 mm
Maximum OD	25"	635 mm
Standard lengths	27, 32, 40"	685, 813, 1016 mm

MACHINED PARTS Available Sizes

Minimum ID	1/2"	12.7 mm
Maximum OD	48"	1220 mm

SHEET Available Sizes

Minimum Thickness	1/8"	0.125 mm
Maximum Thickness	4"	102 mm
Maximum Length	48"	1220 mm
Maximum Width	30"	762 mm