

# Pump Industry

## TriboTex 7, TriboTemp10 and TriboChem 11

ACM Composites has been developing, manufacturing and supplying highly engineered composite bearings to the Pump Industry for many years offering significant increase in performance over other nonmetallic materials.

This comprehensive range of materials have been specially developed to meet the demands of applications requiring high load capability, high speed, low wear, low friction and long life and have therefore proved to be ideal for the Pump Industry.

As a world class supplier ACM Composites offers a professional service with technical support from their experienced team of plastic technologists/application engineers including, design recommendation, technical proposals and quotation, machining recommendations and bearing installation assistance.

### Advantages in using ACM materials

- ▲ Competitive price
- ▲ High load capability
- ▲ Excellent shock resistance
- ▲ Good elasticity
- ▲ Low swell characteristics
- ▲ Very low friction during start up
- ▲ Pollution free operation
- ▲ Short delivery time (repair 48 hours)
- ▲ Shaft friendly/mating surfaces
- ▲ Excellent corrosion resistance
- ▲ Low/zero noise signature
- ▲ Good dimensional stability
- ▲ Good hydrodynamic properties
- ▲ Low wear rate – long life



**acm** COMPOSITES

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# Material/Design Specification

Property	Unit	TriboTex 7	TriboTemp 10	TriboChem 11
Compressive strength (normal)	MPa	375	375	375
Compressive modulus (normal)	MPa	2,750	3,400	2,750
Impact strength (normal)	kJ/m <sup>2</sup>	100	100	100
Density	g/cm <sup>3</sup>	1.30	1.30	1.25
Hardness	Rockwell M	100	100	70
Coefficient of friction (dry)	-	0.13 – 0.15	0.18 – 0.20	0.07 – 0.12
Maximum operating temperature	°C	130	200	130
Minimum operating temperature	°C	-40	-40	-40
Thermal expansion coefficient (parallel)	/ °C	5 x 10 <sup>-5</sup>	4 x 10 <sup>-5</sup>	4 x 10 <sup>-5</sup>
Thermal expansion coefficient (normal)	/ °C	10 x 10 <sup>-5</sup>	5 x 10 <sup>-5</sup>	9 x 10 <sup>-5</sup>
Swell in water	%	< 0.15	< 0.50	< 0.15

(nominal values)



**Chemical Resistance** – A comprehensive chemical resistance chart (over 200 chemical environments) with various concentrations to determine material suitability and maximum operating temperature is available on request if required.

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