

Feroform PR18 is a self lubricating composite material, made from synthetic woven fibres which are impregnated with resins and friction modifiers.

It is an ideal bearing material for a wide range of bearing applications. These include bearings for rudders (approved by the major marine classification societies) and all general purpose bearing applications such as deck equipment, pumps, offshore marine equipment etc.

Feroform PR18 is designed to give excellent service in dry applications possessing very low stick slip but also compatible with all common lubricants such as water, oils and greases.

Properties	Units	
Coefficient of Friction (DRY - WET)	-	0,08 – 0,12
Swell in Water @ 20 °C	%	0,05
Ultimate Compressive Strength	MPa	259 *A
	MPa	>395 *B
Compressive Yield @ 68,9 MPa	%	2,7
Normal Working Pressure	MPa	87,5
Thermal Expansion	Normal	10 ⁻⁶ /°C
	Parallel	10 ⁻⁶ /°C
Maximum Operating Temperature	Continuous	°C
	Intermittent	°C
Shear Strength	MPa	N/A
Impact Strength	kJ/m ²	33
Hardness	Brinell	18
Density	g/cm ³	1,28

*A Tested on BS2782 on 25 x 25 x 25 sample

*B Tested on 50 x 50 x 5 sample, 400 MPa is limit of test equipment

Feroform PR18 is tested on tube samples, as this material is not produced as sheet.

Availability:

Tube:	Length:	900 mm
	Minimum Inside diameter:	Ø20 mm
	Maximum Outside diameter:	On request