

MATERIAL DATASHEET

Material Reference:
FLUORONOID® FL134
Black Pigmented Virgin PTFE

+44 (0) 845 2505 100 
info@fluorocarbon.co.uk 
www.fluorocarbon.co.uk 

> Description >

PTFE has a wide range of applications that make use of its extreme chemical resistance, very low coefficient of friction, excellent electrical insulation properties and thermal stability up to 250°C.

FL134 is suitable for subsea bearings and its lifespan is only limited by its wear rate.

FL134 will not promote sea life growth. Any surface sediment will wipe off during natural expansion movement.

> Standard Physical Properties tested on 3.1

Properties	Value	Method
Specific Gravity	2.16 - 2.24	BS EN ISO 13000-2
Tensile Strength	25MPa min	BS EN ISO 13000-2
Elongation	280% min	BS EN ISO 13000-2
Shore D Hardness	57-67	BS EN ISO 13000-2

> Physical Properties tested by Request

Properties	Value
Compressive Modulus	≈ 480MPa
Operating Temperature Range	-260 to 260°C
Water Absorption	0.01% max
Coefficient of Friction	0.15 max
Thermal Conductivity @ 23°C	≈ 0.25W/mK
Coefficient of Thermal Expansion (-50 to 50DegC)	1.0 - 1.6 x 10 ⁻⁴ /K
Maximum Allowable Bearing Pressure	14MPa

These figures are typical values for the material and do not represent a product specification. Properties will vary depending on the source of raw material, method of processing, physical form of the product, direction of measurement etc.

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> **Chemical Resistance #**

Acids - concentrated	Good
Acids - dilute	Good
Alcohols	Good
Alkalis	Good
Aromatic Hydrocarbons	Good
Grease and Oils	Good
Halogenated Hydrocarbons	Good
Halogens	Good
Ketones	Good

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