

# MATERIAL DATASHEET



**FLUOROCARBON**

**Material Reference:**  
FLUORINOID® FL301  
Glass Fibre Filled ETFE

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## > Description >

This material exhibits relatively high strength, good chemical resistance, excellent radiation resistance and good wear and creep properties.

## > Typical Physical Properties #

Properties	Value
Specific Gravity	1.86-1.87 g/cm <sup>3</sup>
Tensile Strength	69-83 (10000-12000) MPa (psi)
Elongation	6-9%
Shore D Hardness	74
Flexural Modulus	5.2-6.6 (7.5-9.5 × 10 <sup>5</sup> ) GPa (psi)
Impact Strength @ 23°C (73°F)	7.0 (373.73) ft-lb/in (J/m)
(Notched, IZOD) @ -40°C (-40°F)	>2.5 (133.475) ft-lb/in (J/m)
Coefficient of Friction 100 fpm, 100 psi	0.31
Wear Factor	16 x 10 <sup>-10</sup> in <sup>3</sup> min/ft·lb·hr
Dielectric Strength @125 mil	410 (16.1) V/mil (kV/mm)
Water Absorption (24 hours at 23°C)	0.01%
Distortion Temperature @264 psi	210 (410) °C (°F)
Upper Service Temperature	150 (302) °C (°F)
Coefficient of Linear Expansion	0.4 x 10 <sup>-5</sup> in/in/°F
	0.72 x 10 <sup>-5</sup> cm/cm/°C

# 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.