



DATA SHEET

MATERIAL REFERENCE – FLUORINOID® FL 301

DESCRIPTION GLASS FIBRE FILLED ETFE

FORMULATION 75% ETFE, 25% GLASS FIBRE (BY WEIGHT)

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

TYPICAL PHYSICAL PROPERTIES #

SPECIFIC GRAVITY	1.86 - 1.87	g/cm ³
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 ⁵)	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 ⁻¹⁰	in ³ 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 ⁻⁵ 0.72 x 10 ⁻⁵	in/in/°F 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.

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