



DATA SHEET

MATERIAL REFERENCE – FLUORINOID® FL 115

DESCRIPTION CARBON FILLED PTFE

FORMULATION 75% PTFE, 25% CARBON (BY WEIGHT)

FL 115 is used in sealing applications. Carbon filler gives good compression and wear resistance, good thermal conductivity and low permeability.

TYPICAL PHYSICAL PROPERTIES #

SPECIFIC GRAVITY	(BS EN ISO 13000-2)	2.05 – 2.12
TENSILE STRENGTH	(BS EN ISO 13000-2)	11MPa minimum
ELONGATION	(BS EN ISO 13000-2)	70% minimum
SHORE D HARDNESS	(BS EN ISO 13000-2)	60 - 75
COMPRESSIVE STRENGTH	(ASTM D695)	16.5 MPa
at 2% offset, axial		
DEFORMATION UNDER LOAD (ASTM D621)		
24 HOURS	2000 psi total	2%
	2000 psi permanent	1%
WATER ABSORPTION	(ASTM D570)	<0.2%
THERMAL CONDUCTIVITY		0.59 W/(m·K)
COEFFICIENT OF THERMAL EXPANSION (  )		15 x 10 <sup>-5</sup> /°C
VOLUME RESISTIVITY		10 <sup>4</sup> Ω·cm
COEFFICIENT OF FRICTION		~0.085
WEAR RATE (m <sup>3</sup> /Nm x 10 <sup>-16</sup> )		4.8
MAXIMUM WORKING TEMPERATURE		260°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.