




MATERIAL DATASHEET

Material Reference:
FLUORONOID® FL115
Carbon Filled PTFE

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> Description >

FL115 is used in sealing applications. Carbon filler gives good compression and wear resistance, good thermal conductivity and low permeability.

> Typical Physical Properties

Properties	Value	Method
Specific Gravity	2.05-2.12	BSN 13000-2
Tensile Strength	min. 11 MPa	BSN 13000-2
Elongation	min. 70%	BSN 13000-2
Shore D Hardness	60-75	BSN 13000-2
Compressive Strength at 2% offset axial	16.5 MPa	
Deformation Under Load	2000 psi total 2%	ASTM D621
Water Absorption	<0.2%	
Thermal Conductivity	0.59 W/(m·K)	
Coefficient of Thermal Expansion	$15 \times 10^{-5} / ^\circ\text{C}$	
Volume Resistivity	104 $\Omega \cdot \text{cm}$	
Coefficient of Friction	~0.085	
Wear Rate (m ³ /Nm x 10 ⁻¹⁶)	4.8	
Max Working Temp	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.