



DATA SHEET

MATERIAL REFERENCE – FLUORINOID® FL 156

DESCRIPTION CARBON FILLED PTFE

FORMULATION 85% PTFE, 15% CARBON (BY WEIGHT)

TYPICAL APPLICATIONS

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

FL 156 has excellent resistance to H<sub>2</sub>S, CO<sub>2</sub> and methanol.

TYPICAL PHYSICAL PROPERTIES #

SPECIFIC GRAVITY	(BS EN ISO 13000-2)	2.1 – 2.15
TENSILE STRENGTH	(BS EN ISO 13000-2)	18 - 25 MPa
ELONGATION	(BS EN ISO 13000-2)	230 - 350 %
SHORE D HARDNESS	(BS EN ISO 13000-2)	60 - 70
WORKING TEMPERATURE		-200°C to 250°C -328°F to 482°F
COEFFICIENT OF THERMAL EXPANSION		
25°C to 100°C	MD	11.7 x 10 <sup>-5</sup>
	CD	8.5 x 10 <sup>-5</sup>
25°C to 150°C	MD	12.1 x 10 <sup>-5</sup>
	CD	9.4 x 10 <sup>-5</sup>
25°C to 250°C	MD	14.9 x 10 <sup>-5</sup>
	CD	11.7 x 10 <sup>-5</sup>

MD - mould direction

CD - cross mould direction

# 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.