



DATA SHEET

MATERIAL REFERENCE – FLUORINOID® FL 340

DESCRIPTION ULTRA HIGH MOLECULAR WEIGHT
POLYETHYLENE

TYPICAL APPLICATIONS

UHMWPE is a hard wearing, tough material with good chemical resistance, good mechanical and electrical properties. Used for seals, valve components and wear resistant items such as wear strips, sliders, rollers etc.

On request this material can be produced from polymer which satisfies the compositional requirements of US FDA Regulation 21 CFR 177.1520. Requirement for FDA approved material must be clearly stated on the order.

Standard Physical Properties (#) - Tested on 3.1 Certification

SPECIFIC GRAVITY	(DIN 53479)	0.94
TENSILE STRENGTH	(DIN 53455)	30 MPa
ELONGATION	(DIN 53455)	> 200 %
SHORE D HARDNESS	(DIN 53505)	70 – 75

Physical Properties – Tested on Request

COEFFICIENT OF THERMAL EXPANSION	(ASTM E831)	17.5 to 18.5 X 10 ⁻⁵ °C ⁻¹
WORKING TEMPERATURE RANGE		-200 to 80°C
	- for short period	to 105°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.