

# MATERIAL DATASHEET

## Material Reference:

FLUORONOID® FL340

UHMWPE (Ultra high molecular weight polyethylene)

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## > Description >

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

Properties	Value	Method
Specific Gravity	0.94	DIN 53479
Tensile Strength	30 MPa	DIN 53455
Elongation	> 200%	DIN 53455
Shore D Hardness	70-75	DIN 53505

## > Physical Properties - Tested on Request

Properties	Value	Method
Coefficient of Thermal Expansion	17.5 to 18.5 X 10 <sup>-5</sup> °C <sup>-1</sup>	ASTM E831
Working Temperature Range for short period	-200 to 80°C 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.