

# Data Sheet: PTFE FDA

## MATERIAL: POLYTETRAFLUOROETHYLENE FDA

A Virgin PTFE free flow granular resin used in a multi-purpose role with an excellent combination of handleability, processability, machinability and end use properties.

Meets the FDA regulation under code 21CFR 177.1550 and EU Directive 10/2011/EC for material that may come into contact with food. Also meets WRAS Approval.

Conforms to the requirements of BS EN ISO 13000-1 Grade 1 Type P (as processed) or Type S (Stabilised) and to ASTM D 4894 type IV grade 2.

This material is ideally suited for hydraulic applications where its use combined with seals and O-rings can vastly improve the seals performance, combined with its high and low working temperature and its low friction. The polymer can also be used with most aggressive chemicals and is not effected by swelling or moisture absorption etc.

**COLOUR:** WHITE

**GENERAL SERVICE TEMPERATURE RANGE:** -250°C to +250°C

PHYSICAL PROPERTIES	TEST METHOD	SPECIFICATION
HARDNESS, SHORE D	DIN 53505	57±3
<b>SPECIFIC GRAVITY, g/cm<sup>3</sup></b> THEORETICAL	DIN EN ISO 12086	2.17±0.02
TENSILE STRENGTH, MPa	ASTM D4894	27.6 Min
AVERAGE ELONGATION, %	ASTM D4894	300 Min
BULK DENSITY, g/l	DIN EN ISO 60	800±50
DIAMETRIC SHRINKAGE, %	INTERN	3.0±0.5

*The above test results are based on test slabs / buttons. The results from the actual parts may be different.*

**Issue Date: 13.01.2016**