

# ACOFLON® 100 - DATASHEET

**BASE MATERIAL:** PTFE, Virgin (Polytetrafluoroethylene)

**FILLERS:** None

**COLOR:** White, semi-translucent

**SPECIAL CHARACTERISTIC:**

- High chemical resistance
- Low adhesion
- Low coefficient of friction
- High creep under high pressure & temperature

**TYPICAL APPLICATIONS:**

- Pharmaceutical engineering
- Food processing industries
- Seals & Gaskets
- Bellows, Membranes & Diaphragms

**REGULATORY SUPPORT LIST**

EU 10/2011	-	YES
FDA	-	YES
USP	-	Class VI
3A	-	YES
W.R.A.S	-	YES

*We recommend contacting Acoplastic for the latest regulatory support list.*

PROPERTIES	METHODE	NOTE	UNIT	TYPICAL VALUE
Specific gravity	ISO 12086		g/cm <sup>3</sup>	2.17
Tensile strength	ASTM D638		MPa	20 – 32
Elongation at break	ASTM D638		%	250 – 400
Deformation under load	ASTM D621	15 MPa at 24 hrs.	%	14.5 – 16.5
Permanent deformation	ASTM D621		%	7.1 – 9.1
Compressive stress 1% deformation	ASTM D695		MPa	4.5 – 6.0
Compressive stress 25% deformation	ASTM D695		MPa	22 – 28
Coef. of Thermal Exp.	ASTM D696	0 – 200 °C	mm/mm·10 <sup>-5</sup> °C	12.4 - 14.4
Wear coefficient	MF	PV = 100 (kg·m)/(cm <sup>2</sup> ·min)	(cm <sup>3</sup> ·min)/(kg·m·h)·10 <sup>-8</sup>	20 000 – 25 000
Coefficient of friction	ASTM D1894	Ra: 0.25 - 0.35 µm.		0.06 – 0.08
Hardness			Shore D	52 – 55

*The values stated above are typical values and should only be used as guidance. Users shall determine the suitability of the products for the intended application. Acoflon® is a registered trademark of Acoplastic A/S, Helsingør, Denmark*