





Via Emilia, 292 – 40068 San Lazzaro di Savena (BO)

Tel. 0516258101/102 - Fax. 0516258098

www.sixten.it - sixten@sixten.it

# Material Data Sheet AF101-B85

AFLAS\* AF101-black (bisphenol cross linked)

#### General

AF101-B85 is a Tetrafluoroethylene/Propylene copolymere (TFE/P), commonly referred to as FEPM or AFLAS\*. AFLAS\* has a very high resistance to hydraulic fluids (incl. Alkyl-Acryl-Phosphate Esters), all break fluids (on glycole, minerale and silicone base), acids, steam and hot water, sour oils/gases (H2S) and heavily formulated oils with amine additives.

#### Physical properties

Density:	DIN 53479	g/cm³	1,76	±0,03
Hardness at 23°C:	DIN 53505	Shore A	86	±5
100% Modulus:	DIN 53504	N/mm²	10,6	*
Tensile strength:	DIN 53504	N/mm²	12,1	*
Elongation at break:	DIN 53504	%	107,4	*
Tear resistance:	DIN 53515	kN/m	47,6	*
Rebound resiliance:	DIN 53512	%	9,0	*
Compression set, 24h, 70°C, 25%:	DIN 53517	%	21,7	*
Compression set, 24h, 100°C, 25%:	DIN 53517	%	21,0	*
Compression set. 22h. 175°C. 25%:	DIN 53517	%	36.8	*

<sup>\*</sup> mentioned values are subject to a tolerance of +/- 25%

Temperature range: -15°C to 210°C

## Chemical resistance

Resistant to: Water up to 90°C, Steam, HFA, HFB Fluids, HFC, HFD Fluids, Mineral Oils,

Vegetable Oils, Ozone, Break Fluids, Air up to 200°C

Not Resistant to: Fuels, Solvents

### Main application

Static and dynamic seals (standard and special), wipers, O-rings, flange seals, rotary seals, rubber energizers (preload elements). Applications where high temp. and/or chemical resistance is required, oil and gas industry.