

## MATERIAL DATA SHEET

### EPDM

#### GENERAL INFORMATION

EPDM is based on ethylene-propylene rubber and is commonly known as EPDM. It has outstanding resistance to hot water, steam (up to 180 °C), washing agents and polar organic solvents and good resistance to weathering, ozone and ageing. EPDM is not resistant to mineral, vegetable and animal oils, resistance to gas permeability and radiation is low.

EPDM can be used in glycol based break fluids, provided previous successful tests passed.

#### MECHANICAL | ELECTRICAL | THERMAL PROPERTIES

Colour:			black
Hardness at 20°:	DIN 53505	Shore A	85 +/-2
Density:	DIN ISO 1183-1	g/cm <sup>3</sup>	1.22
100% Modulus:	DIN 53504	N/mm <sup>2</sup>	> 10
300% Modulus:	DIN 53504	N/mm <sup>2</sup>	
Tensile strength:	DIN 53504	N/mm <sup>2</sup>	> 14
Elongation at break:	DIN 53504	%	> 130
Rebound resilience:	DIN 53512	%	> 35
Tear strength:	DIN ISO 34-1	N/mm <sup>2</sup>	> 5
Abrasion:	DIN 53516	mm <sup>3</sup>	< 120
Compression set:*	DIN ISO 815-1	%	< 12
Compression set:**	DIN ISO 815-1	%	< 17
Compression set:***	DIN ISO 815-1	%	< 14
Min. service temperature:		°C	- 50
Max. service temperature (short term):		°C	+ 150 (+180)

\* Compression set @ 23°C, 72 hours, 10% deflexion

\*\* Compression set @ 70°C, 24 hours, 20% deflexion

\*\*\* Compression set @ 100°C, 24 hours, 20% deflexion

#### REMARK

All test methods and values mentioned above are corresponding to ASTM | DIN | ISO standards and have been tested on standardized plates in the laboratory. All tests are made under laboratory conditions.