

## Material Data Sheet

# UTECTHANE-XSL

### General Information

UTECTHANE-XSL is a MDI based polyurethane system which has been specially modified and developed for sealing applications. UTECTHANE-XSL has been optimized in regards to its mechanical and friction properties and stability in mineral and synthetic oils, gasoline, acid and basic environment. It has high tensile strength, very high abrasion resistance, low hysteresis, very good flexibility at low temperatures (-30/-40 °C) and low compression-set. UTECTHANE-XSL has excellent extrusion resistance and allows higher working pressures and larger sealing gaps compared to seals made of PTFE compounds. It is especially used under poor lubrication working conditions.

### Physical properties

Colour:			dark grey
Hardness at 20°:	DIN 53505	Shore D	60 +/-3
Density:	DIN 53479	g/cm <sup>3</sup>	1.21
100% Modulus:	DIN 53504	N/mm <sup>2</sup>	> 20
300% Modulus:	DIN 53504	N/mm <sup>2</sup>	> 38
Tensile strength:	DIN 53504	N/mm <sup>2</sup>	> 54
Elongation at break:	DIN 53504	%	> 400
Rebound resilience:	DIN 53512	%	> 44
Tear strength:	DIN 53515	N/mm <sup>2</sup>	> 158
Abrasion:	DIN 53516	mm <sup>3</sup>	< 16
Compression set:**	DIN 53517	%	< 26
Min. service temperature:		°C	-35
Max. service temperature:		°C	110

\* Compression set: 70°C, 23 hours, 25% deflexion.

### Remark

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

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