

## Material Data Sheet

# UTECTHANE-XH

### General Information

UTECTHANE-XH is a MDI based polyurethane system which has been specially modified and developed for sealing applications. UTECTHANE-XH has been optimized in regards to hydrolysis stability, mechanical and friction properties. 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-XH has excellent extrusion resistance and allows higher working pressures and larger sealing gaps compared to seals made of PTFE compounds.

### Physical properties

Colour:			dark red
Hardness at 20°:	DIN 53505	Shore D	60 +/-3
Density:	DIN 53479	g/cm <sup>3</sup>	1.18
100% Modulus:	DIN 53504	N/mm <sup>2</sup>	> 22
300% Modulus:	DIN 53504	N/mm <sup>2</sup>	> 39
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>	> 165
Abrasion:	DIN 53516	mm <sup>3</sup>	< 16
Compression set:**	DIN 53517	%	< 25
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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