

Material Data Sheet

UTECTHANE-SL

General Information

UTECTHANE-SL is a MDI based polyurethane system which has been specially modified and developed for sealing applications. UTECTHANE-SL has been optimized in regards to its mechanical properties and reduced friction and wear by adding solid lubricants (MoS₂). It has high tensile strength, very high abrasion resistance, low hysteresis and low compression-set.

Physical properties

Colour:			dark grey
Hardness at 20°:	DIN 53505	Shore A	94 +/-2
Density:	DIN 53479	g/cm ³	1.20
100% Modulus:	DIN 53504	N/mm ²	> 11.5
300% Modulus:	DIN 53504	N/mm ²	> 29
Tensile strength:	DIN 53504	N/mm ²	> 55
Elongation at break:	DIN 53504	%	> 440
Rebound resilience:	DIN 53512	%	> 51
Tear strength:	DIN 53515	N/mm ²	> 112
Abrasion:	DIN 53516	mm ³	< 15
Compression set:**	DIN 53517	%	< 20
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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