

Material Data Sheet

UTECHANE-HTQ-1

General Information

UTECHANE-HTQ-1 is an MDI-based polyurethane system which has been specially modified and developed for sealing applications with turquoise pigment. UTECHANE-HTQ-1 has been optimized in terms of its mechanical properties and stability in mineral and synthetic oils, gasoline, acidic and caustic environments. It has high tensile strength, very high abrasion resistance, very good flexibility at low temperatures (-20°C) and low compression set.

Physical properties

Colour:			Turquoise
Hardness at 20°:	DIN 53505	Shore A	95 +/-2
Density:	DIN 53479	g/cm ³	1.17
100% Modulus	DIN 53504	N/mm ²	>
300% Modulus	DIN 53504	N/mm ²	> 10
Tensile strength:	DIN 53504	N/mm ²	> 21
Elongation at break:	DIN 53504	%	50
Rebound resilience:	DIN 53512	%	> 400
Tear strength:	DIN 53515	kN/m	> 45
Abrasion:	DIN 53516	mm ³	< 40
Compression set:	DIN 53517	%	< 10
<i>(70°C for 23 hours with 25% deflection)</i>			
Min. service temperature:		°C	-20
Max. service temperature:		°C	+110

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.