



STS Directory

Accreditation number: STS 0036

International standard: ISO/IEC 17025:2017
Swiss standard: SN EN ISO/IEC 17025:2018

LABOR SPIEZ
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Initial accreditation: 29.10.1993
Current accreditation: 27.09.2019 to 26.09.2024
Scope of accreditation see: www.sas.admin.ch
(Accredited bodies)

Scope of accreditation as of 25.08.2022

Testing Laboratory for Plastics and Rubber, and for the Protection Performance of Polymers, Rubber and Textiles against Chemical Warfare Agents

Group of products or materials, field of activity	Principle of measurement ²⁾ and ³⁾ (characteristics, measuring ranges, type of test)	Test methods, remarks (national, international standards, in-house test methods)
PLASTICS	Mechanical methods ²⁾	
	Tensile test	DIN EN ISO 527, ASTM D638
	Bending test	DIN EN ISO 178, ASTM D790
	Charpy impact test	DIN EN ISO 179-1
	Izod impact test	DIN EN ISO 180
	Compression test	DIN EN ISO 604
	Tear resistance, Elmendorf method	DIN EN ISO 6383-2
Size reduction of plastic products for testing purposes	DIN 53733	



STS Directory

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PLASTICS	Physical methods ²⁾ Melt Flow Rate MVR, MFR Moisture content Post-shrinkage of POM form parts Grammage	DIN EN ISO 1133-1/-2, ASTM D1238 L 036 086 L 038 081 DIN EN ISO 536
PLASTICS	Physical-chemical methods ²⁾ Residual stress test of form parts Depolymerisation behaviour of POM with thermal analysis TGA	L 036 080 L 036 079
RUBBER	Mechanical methods ²⁾ Tensile test Rebound resilience	DIN 53504 DIN 53512
RUBBER	Physical-chemical methods ²⁾ Determination of solvent extract Accelerated ageing	ISO 1407 DIN 53508
RUBBER AND THERMOPLASTIC ELASTOMERS	Mechanical methods ²⁾ Tear strength Tear strength, small (Delft) test pieces Compression test	DIN ISO 34-1 ISO 34-2 ISO 7743
RUBBER AND THERMOPLASTIC ELASTOMERS	Physical methods ²⁾ Compression set Tensile set under constant elongation Hardness IRHD, method M	DIN ISO 815-1 DIN ISO 2285 DIN ISO 48-2
RUBBER AND THERMOPLASTIC ELASTOMERS	Physical-chemical methods ²⁾ Resistance to ozone cracking Effect of liquids	DIN ISO 1431-1 DIN ISO 1817
PLASTICS AND RUBBER	Physical methods ²⁾	



STS Directory

Accreditation number: STS 0036

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PLASTICS AND RUBBER	Density of solids	DIN EN ISO 1183-1
	Hardness Shore A and Shore D	DIN ISO 48-4, DIN EN ISO 868
	Artificial weathering	DIN EN ISO 4892-2
	Water vapour transmission	DIN EN ISO 12572, DIN 53122-1
	Physical-chemical methods ²⁾	
	Thermal analysis TGA	ASTM D1131
	Thermal analysis DSC	DIN EN ISO 11357-1/-2/-3
PLASTICS AND RUBBER	Thermal analysis DSC OIT isothermal and dynamic	DIN EN ISO 11357-6, DIN EN 728, ASTM D3895
	Horizontal flammability test	UL 94, DIN EN 60695-11-10
	Vertical flammability test	UL 94, DIN EN 60695-11-10
PLASTICS AND RUBBER	Spectroscopic methods ²⁾	
	Material identification by infrared-spectroscopy FTIR, ATR	L 036 017
RIGID CELLULAR PLASTICS	Mechanical methods ²⁾	
FLEXIBLE CELLULAR POLYMERIC MATERIALS	Compression test	DIN EN ISO 844
	Mechanical methods ²⁾	
	Tensile test	DIN EN ISO 1798
FLEXIBLE CELLULAR POLYMERIC MATERIALS	Compression test	DIN EN ISO 3386-1/-2
	Hardness (indentation method)	DIN EN ISO 2439
	Physical methods ²⁾	
FLEXIBLE AND RIGID CELLULAR POLYMERIC MATERIALS	Compression set	DIN EN ISO 1856
	Physical-chemical methods ²⁾	
AEROSOL FILTER MEDIA	Accelerated aging	DIN EN ISO 2440
	Physical methods ²⁾	
TEXTILES	Water repellence	L 036 085
	Mechanical methods ²⁾	
	Tensile test	DIN EN ISO 13934-1



STS Directory

Accreditation number: STS 0036

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TEXTILES	Tear resistance (Elmendorf) Physical methods ²⁾	DIN EN ISO 13937-1
COATED TEXTILES	Mass per unit area Mechanical methods ²⁾	DIN EN 12127
PLASTICS, RUBBER, TEXTILES	Tear resistance (method B) Chemical-optical und chemical-physical methods ³⁾	DIN EN ISO 4674-1
MATERIAL SURFACES	Determination of resistance against chemical warfare agents by means of: <ul style="list-style-type: none"> • Indicator paper method • Conductivity method Physical methods ²⁾ Measurement of colour and gloss, method B (measurement geometry 45/0)	In-house methods based on DIN EN ISO 6529, NATO AEP-38, Finabel Convention O.7.C DIN 53236

In case of contradictions in the language versions of the directories, the German version shall apply.

The testing laboratory maintains a list with detailed information on the activities within the scope of accreditation. It is available upon request at the testing laboratory.

Abbreviation	Signification
AEP	Allied Engineering Publication
ASTM	American Society for Testing and Materials
ATR	Attenuated Total Reflection
DIN	Deutsches Institut für Normung
DSC	Differential Scanning Calorimetry
EN	Europäische Norm
FTIR	Fourier-Transform Infrared Spectroscopy
IHRD	International Rubber Hardness Degree
ISO	International Organisation for Standardization
L 036 nnn	In-house methods
MFR	Melt Mass Flow Rate
MVR	Melt Volume Flow Rate



STS Directory

Accreditation number: STS 0036

Abbreviation	Signification
NATO	North Atlantic Treaty Organisation
OIT	Oxitation Induction Time
POM	Polyoxymethylene
TGA	Thermogravimetric Analysis
UL	Underwriters Laboratories

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