

OIL, GAS &  
**SGS**CHEMICAL  
SERVICES

8197 1kN

# ELASTOMER & POLYMER SERVICES **ANALYTICAL CAPABILITY**

**SGS**



# Capabilities 2008

## Elastomer & Polymer Services

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## Elastomer&Polymer Services

Analysis	Method	Number of Measurements
<b>A</b>		
Abrasion	ASTM D 1044 / D 3884 / ISO 5479	1
	DIN 53435	1
Acid wash number	ASTM D 848	1
Acidity (arenes)	ASTM D 847	1
Acidity	ASTM D 1613	1
	ISO 2114	1
Adhesion coatings	ISO 2411	
Adhesion manuell (per substrate)		2
Adhesion test (tensilmeter, per substrate)		2
Adhesion test (strenght) woven fabrics	DIN 53530	3
Adhesion test (strenght) plastic sheets	DIN 53357	3
Ageing-testing	ISO 2440	
Aldehyde Determination	ASTM D 2119	1
Anilinepoint	ASTM D 611 / ISO 2977	1
Appearance	visual	1
Arcresistence	VDE 0441	
Ashcontent		2
<b>B</b>		
Basic Nitrogen	UOP 269	1
Blowby-Gas Stability-testing	PV 3936	
Breakdown voltage	VDE 0303 / DIN 53481	3
Breakdown voltage oil	ISO 60156	6
Bromineindex	ASTM D 2710 / DIN 51774-2	3
<b>C</b>		
Centrifuge-stability	Housemethod	1
Chemical Stability	ISO 16750-5	
Chloridecontent	ASTM D 5808 / EN 14077 / DIN 51408 / UOP 779	1
CIE-values	DIN 5033	1
Color (Hazen)	ISO 6271 / DIN 1557	1
Color	ASTM D 1500	1
	DIN ISO 2049	1
	ASTM D 156	1

Compression set/permanent deformation		
- Head 24h	ISO 815 / DIN 53517	3
- Head 72h	ISO 815 / DIN 53517	3
- Head 7d	ISO 815 / DIN 53517	3
- Coldness 24h	ISO 815 / DIN 53517	3
- Test medium 24h	ISO 815 / DIN 53517	3
- Test medium 72h	ISO 815 / DIN 53517	3
- Test medium 7d	ISO 815 / DIN 53517	3
- Foam	ISO 1856	3
Copper corrosion	ASTM D 130	
Corrosion activity at copper	VDA 675241	1
Crosscuttingtest	ISO 2409	1
Crosslinking-determination	Housemethd	1
Curing	pro Stunde	

<b>D</b>		
Density (Balance)	DIN 53479	1
Density (areometer)	DIN 51757	1
Density	ASTM D 4052 / DIN 51757 / ISO 12185	1
Density (Pycnometer)	DIN 51757	3
Distillation	DIN ISO 3405 / ASTM D 86 / ASTM D 850	1
Dielectric loss factor	IEC 60247	3
Dielectric strenght	VDE 0303 Teil 21	
DSC		1

<b>E</b>		
Elongation/Tensile strenght	DIN 53504 / ISO 37	5

<b>F</b>		
Flametest	Housemethod	3
Flashpoint closed cup	ISO 2719 / ASTM D 93	1
Flashpoint open cup	ISO 2592	1
Flexural strain Coldness	VDA 675254	3
Flexural/Bending Test	ISO 178	5
Flow cup	DIN 53211 / ISO 2431	1

<b>G</b>		
Gardner	ISO 4630	1
GC	internal standard simple	
Gelpointdetermination	Housemethod	1

<b>H</b>		
Hardness Shore D	DIN 53505 / ISO 868	3
Hardness Shore 00	DIN 53519 / ISO 48	3
Hardness Shore A	DIN 53505 / ISO 868	3
Hardness IRHD	DIN 53519 / ISO 48	3
Haze (stray light)	DIN 5033	1
Haze (Haze gard)	ASTM D 1003	1
Head storage of plastic parts	DIN 53497	
HDT/Vicat	ISO 75	3

<b>I</b>		
Impacttest Charpy	ISO 179	10
Impacttest Dynstat	DIN 53435	10
Impacttest Izod	ISO180	10
Impurities	Microscop	1
Iod	ISO6162	1
IR		

<b>L</b>		
Lab-value	DIN 5033	1
Lead	AAS	1

<b>M</b>		
MFI/MVR		1
Mill (<3 Components)		per batch
- per additional component		per batch
Mixing (3 components)		per batch
- per additional component		per batch
Mooney		
- viscosity	DIN 53523	1
- vulcanisation	DIN 53523	1

<b>N</b>		
Neutralisation-number	DIN 51558	1
Nitrogen-content	ASTM D 4629 / ASTM D 6069	1

<b>O</b>		
OH-number	Housemethod	3

<b>P</b>		
Performance against Fluids	ISO 1817	
Permanganate-time	ASTM D 1363	1
pH-value with electrode		1
pH-value with paper		1

**R**

Reactivity RPA2000		
- Amplitude-test	DIN 53529	1
- Frequency-test	DIN 53529	1
Reboundelasticity	DIN 53512	3
Refractive Index	DIN 51423	1
Rub Off	Housemethod	1

**S**

Samplepreparation notches		10
Samplepreparation shape (components/parts)		
Samplepreparation split/peeling	Bandknife	
Samplepreparation cutting		10
Samplepreparation injection moulding		
Seperationstest	Housemethod	1
Solid Mettler HR73	Housemethod	3
Solid drying oven (<1h)	ISO 3251	3
Solid drying oven (<24h)	ISO 3251	3
Solid drying oven (<3h)	ISO 3251	3
Solid drying oven (<24h)	ISO 3251	3
Solid vacuum drying oven	Housemethod	3
Solubility	Housemethod	1
Storage		
- Ad-Blue / Elastomere	DBL 5585	
- Ad-Blue / Thermoplaste	DBL 5419	
- Autoclave		1.Week additional week
- Gasoline		1.Week additional week
- Diesel fuel		1.Week additional week
- Bio-Diesel		1.Week additional week
- Oil		1.Week additional week
- Fat		1.Week additional week
- Water		1.Week additional week
- Brakefluid		1.Week additional week
- Cooling liquid		1.Week additional week
- Heat/coolness		1.Week additional week
Sulfur-content	ISO 20846 / ASTM D 5453	1

## T

TBA-Determination	ASTM D 4590	1
Tear strenght Textiles	ISO 13937-2 / DIN 53356	5
Tear strenght Crescent	ASTM D 624	5
Tear strenght Graves	ISO 34-1	5
Tear strenght Trouser	ASTM D 624 / ISO 34-1	5
Tensile test	ISO 1421 DIN 53504 / ISO 37 / ISO527 / ASTM D 638	5
Tensile test coldness	DIN 53504 / ISO 37 / ISO527 / ASTM D 638	5
Tensile test foam	ISO 1798	5
Tensile test heat	DIN 53504 / ISO 37 / ISO527 / ASTM D 638	5
Tensile test non-woven fabric	ISO 9073-3	5
Tensile test textiles	ISO 13934-1	5
TGA		1
Thickness measurement	ISO 4593	3
Titration Acid/Base	volumetric	3
Titration SiH	volumetric	2
Titration standard	potentiometric	1

## U

UV-Vis Spectroscopy		1
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## V

Vapour pressure	ASTM D 5191	1
Viscosity cone/plate or plate/plate (oscillate or rotative)	DIN 53019	1
Viscosity of Adhesive	ISO 2555	1
Viscosity shear rate	DIN 53019	1
Viscosity with Brookfield RVF	ASTM D 2983	1
Viscosity with Contraves	DIN 53018	1
Viscosity with SV/MV DIN	DIN 53018	1
Viscosity with Ubbelohde	DIN 51562-1	
Viscosity with rotation body	DIN 53018	1
Viscosity (Höppler)	DIN 53015 / ISO 12058	1
Volume resistivity	ISO 1853	10

## W

Water content coulometric	ISO 12937	1
Water content volumetric		1
Water miscibility	ASTM D 1722	1