



Silflex Limited

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TECHNICAL DATA SHEET – SM41

DESCRIPTION

Silicone Rubber Compound, vulcanising on heating. Specifically designed for hoses to meet SAEJ20.

SPECIAL PROPERTIES

Stable over a range of temperatures -55°C to +225°C
Good compromise of mechanical properties
No post cure
Excellent calenderability
Good compression set
Moderate oil resistance

CHARACTERISTICS

Type (AFNOR T 40002)	VMQ
Specific gravity at 25°C, approx.	1.18 ±0.05
Colour	Black

PROPERTIES AFTER PROCESSING

1. **Mechanical properties**
 - 1.1 **After curing 8 minutes at 115°C**

Shore A hardness, approx.	65 ±5
Tensile strength, MPa,	8.6 Min
Elongation at break, %,	308 Min
Tear strength, kN/m,	13 Min
Compression set (22h/177°C/25%), %, approx.	24
Compression set (70h/125°C/25%), %, approx.	13
 2. **Heat stability**
 - 2.1 **Properties after ageing 10 days at 200°C**

Shore A hardness, approx.	66
Tensile strength, MPa, approx.	7.3
Elongation at break, %, approx.	250
Tear strength, kN/m, approx.	10
 - 2.2 **Properties after ageing 70 hours at 175°C**

Shore A hardness, approx.	65
Tensile strength, MPa, approx.	8.1 (-6%)
Elongation at break, %, approx.	285 (-7%)

Registered in England No. 2569811



Certificate N° FM33476

Currie & Warner Group





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3. Fluid resistance

3.1 Properties after immersion in coolant (Havoline XLC, new generation, at 50% in water) for 3 days at boiling point.

Shore A hardness, approx.	67 (0 pts)
Tensile strength, MPa, approx.	7.2 (-9%)
Elongation, %, approx.	279 (-6%)
Volume change, %, approx.	0

3.2 Properties after immersion in coolant (Havoline XLC, new generation, at 50% in water) for 21 days at boiling point.

Shore A hardness, approx.	64 (-3 pts)
Tensile strength, MPa, approx.	6.2 (-22%)
Elongation, %, approx.	246 (-17%)
Volume change, %, approx.	0

3.3 Properties after immersion in coolant (Glaccol) for 70 hours at boiling point.

Shore A hardness, approx.	64 (-1 pts)
Tensile strength, MPa, approx.	6.9 (-19%)
Elongation, %, approx.	300 (-3%)
Volume change, %, approx.	+2

3.4 Properties after immersion in coolant (Liquid D at 50% in water) for 70 hrs at boiling point.

Shore A hardness, approx.	62 (-3 pts)
Tensile strength, MPa, approx.	7.1 (-18%)
Elongation, %, approx.	255 (-17%)
Volume change, %, approx.	+1

3.5 Properties after immersion for 70 hours at 150°C in IRM 903 oil.

Shore A hardness, approx.	48 (-17 pts)
Tensile strength, MPa, approx.	6.7 (-22%)
Elongation, %, approx.	235 (-24%)
Volume change, %, approx.	+26

APPLICATIONS

Manufacture of automotive hoses by calendering.

PACKAGING

The elastomer is delivered in 25 kg cardboard boxes or 500 kg cardboard containers.

STORAGE AND SHELF LIFE

The elastomer should be able to be stored in its original unopened packaging at a temperature below +35°C for up to 3 months from the date of manufacture.

Date of manufacture should be marked clearly on the packaging.



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