

FLEXCOMP® Compounds

- ► Safely applicable
- ► Highly flexible
- ► Flame resistant
- ▶ Certified

RELIABLE - SAFE - LONG-LASTING: FLEXCOMP® SILICONES.

Silicones of the Series FLEXCOMP® RB are compounds with extraordinary properties, which predestine them especially for applications in the railway sector.

FLEXCOMP® Silicones are

- Permanently elastic, no melting or creeping
- ▶ Resistant to ozone, UV radiation, salt water, industrial climate and weathering; repels water and dirt
- ► Resistant to cold (down to -110°C) and heat (up to 300°C).

SPECIAL BENEFITS THAT FLEXCOMP® OFFERS THE RAILWAY INDUSTRY.

FLEXCOMP® Silicones from M+S Silicon are ground-breaking developments of a market leader of silicones in railway applications:

- ► Low flammability
- Extremely low smoke density when burning
- ► No toxic fumes
- ▶ Free of brominated flame retardants
- Broad portfolio
- Certifications of all relevant norms available (see table).

RANGE OF APPLICATION OF FLEXCOMP® IN THE RAILWAY SECTOR.

FLEXCOMP® ist being processed into extrudates, calendered sheets and moulded parts, and also finished parts:

- ► Edge and finger protection profiles, e.g. for doors
- ► Sealing profiles, frames, or rings, e.g. for windows, rooflights
- ► Sealings for equipment, machines, motors, ...
- ▶ Sheetings / laminates, e.g. for bellows and flooring.



FLAME-RESISTANT SILICONES FOR THE RAILWAY INDUSTRY - CERTIFIED CLASSIFICATIONS.

	EN 45545-2	shore hardness	curing system	colour
FLEXCOMP® Series RB-R: flame resistant, universally applicable				
RB-R 50010	R22/R23: HL3	50°	peroxide cured	blueblack
RB-R 60010-03	R22/R23: HL3	60°	peroxide cured	black
RB-R 70010-03	R22/R23: HL3	70°	peroxide cured	black
RB-R 70020	R22/R23: HL3	70°	peroxide cured	blueblack
RB-A-U 60010-03	R22/R23: HL3	60° (untempered)	platinum cured	blueblack
RB-A-U 70010-03	R22/R23: HL2	70° (untempered)	platinum cured	blueblack
FLEXCOMP® Specialities: a selection				
STRB 25130-02 high tear strength with flame retardants	R22: HL2 / R23: HL3	25°	platinum cured	blueblack
STRB 60130-01 high tear strength with flame retardants	R22/R23: HL3	60°	platinum cured	blueblack
STRB70130-01 high tear strength with flame retardants	R22/R23: HL3	70°	platinum cured	blueblack
X-RB-R 50010 flame resistant silicone foam, density 0,40 g/cm ³	R22/R23: HL3	-	peroxide cured	blueblack

Conformities, e.g. according to UL 94, and other details will be answered by our customer service.

FLEXCOMP® THE COORDINATES.

FLEXCOMP® compounds offer an extremely broad range of properties. A selection:

Hardness	10-95 Shore®A		
Temperature Range	-110°C - +300°C (-166°F - +572°F)		
Density	0.95 – 2.30 g/cm ³ (foamed 0.23 - 1.10 g/cm ³)		
Tensile Strength (breakpoint)	3 – 13 N/mm² (MPa)		
Tear Strength (Notch Resistance)	10 – 63 N/mm (ASTM D 624 B) 3 – 25 N/mm (DIN 53507)		
Elongation at Break	100 – 1500 %		
Rebound Resilience (Elasticity)	25 – 75 %		
Compression Set (Permament Deformation)	50 - 0 % (175°C, 22h) 20 - 3 % (125°C, 22h) 10 - 0 % (100°C, 22h)		
Flammability Classification	EN 45545-2, BS 6853, NFPA 130, UL94		

FLEXCOMP® TYPE SERIES WITH ESPECIALLY INTERESTING PROPERTIES:

FLEXCOMP® STR ▶ World record holder in tensile strength for silicones, basis for our new developments FLEXCOMP® STRB

FLEXCOMP® RH ▶ Outstandingly high heat resistance, for applications close to motors etc.

Extremely resistant to cold, for applications in cooling FLEXCOMP® RC

FLEXCOMP® F ► Fluoro silicones with exceedingly increased chemical resistance

FLEXCOMP® X und FX ► Foamed silicones and fluoro silicones for reduced weight and highly compressible items

Disclaimer: The mentioned figures are intended as a guide and should not be used in preparing specifications. They have been taken from pressed plates and represent our current status of knowledge. They do not liberate the customer from careful end-use application tests, neither from the duty to check on violations of proprietary rights. We reserve the rights for alterations at any point.



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