

SiSiB[®] LR52xx

LSR for Low Compression Set Gasket & Parts

DESCRIPTION

It is a two parts and platinum curable liquid silicone rubber for injection molding process with precolour. It is particularly developed with good mechanical properties and low compression set after molded without post cure.

KEY FEATURES

- ☐ Low compression set
- ☐ Easy precoloured
- ☐ Excellent thermal and weather ability
- ☐ Good rebound at low temperature
- ☐ Stable at high temperature

TYPICAL PHYSICAL PROPERTIES

Product	LR5220	LR5230	LR5240
Appearance	Precoloured	Precoloured	Precoloured
Hardness (Shore A)	20-24	28-32	38-42
Density (g/cm ³)	1.08-1.11	1.11-1.13	1.11-1.14
Viscosity (Pa.s)	600-1000	1000-1500	1200-1600
Tensile Strength (MPa)	Min. 6.0	Min. 7.5	Min. 7.5
Elongation at Break (%)	Min. 750	Min. 650	Min. 460
Tear Strength (KN/m)	Min. 12	Min. 18	Min. 20
Compression Set, first cured (%)	Max. 20	Max. 20	Max. 20
Dielectric Strength (1-mm-sheet) (KV/mm)	25	25	25
Volume Resistivity (Ωcm)	1x10 ¹⁶	1x10 ¹⁶	4x10 ¹⁶
Permittivity (50Hz)	2.8	2.8	2.9
Dissipation Factor (50 Hz)	11 x10 ⁻⁴	11 x10 ⁻⁴	9 x10 ⁻⁴

Product	LR5250	LR5260	LR5270
Appearance	Precoloured	Precoloured	Precoloured
Hardness (Shore A)	47-52	57-62	65-70
Density	1.11-1.14	1.12-1.15	1.13-1.16
Viscosity (Pa.s)	1500-2200	2000-3000	2000-3000
Tensile Strength (MPa)	Min. 8.5	Min. 8.5	Min. 8.0
Elongation at Break (%)	Min. 450	Min. 400	Min. 350
Tear Strength (KN/m)	Min. 30	Min. 30	Min. 25

SiSiB[®] LR52xx

LSR for Low Compression Set Gasket & Parts

Compression Set, first cured (%)	Max. 25	Max. 25	Max. 25
Dielectric Strength (1-mm-sheet) (KV/mm)	26	26	26
Volume Resistivity (Ωcm)	3×10^{16}	5×10^{16}	6×10^{16}
Permittivity (50Hz)	2.9	2.9	2.7
Dissipation Factor (50 Hz)	11×10^{-4}	17×10^{-4}	14×10^{-4}

Curing Condition: 5 minutes at 165°C.

APPLICATIONS

Mold and gasket parts for general and auto industries.

PACKING AND STORAGE

These products are supplied in 20Kg box, with plastic bag inside.

In the unopened original container it has a shelf life of one year in a dry and cool place.

NOTES

All information in the leaflet is based on our present knowledge and experience. We reserve the right to make any changes according to technological progress or further developments. Performance of the product described herein should be verified by testing.

We specifically disclaim any other express or implied warranty of fitness for a particular purpose or merchantability. We disclaim liability for any incidental or consequential damages.

Please send all technical questions concerning quality and product safety to: support@SiSiB.com.