

# VFRW50

## Flame Retardant Silicone Rubber (Rail Spec)

### General Information

A flame retardant silicone rubber compound for use in the rail industry. The colour of this silicone rubber base is white. Colours will not match the RAL colour codes of the pigments used resulting in pastel colours/

### Material compliance

- BS 6853 cat 1
- EN45545-2 R22, R23 (HL3)

### Environmental Resistance

Silicone Rubber Products have an excellent resistance to:

- Ozone
- Oxidation
- Ultraviolet Light
- Corona Discharge
- Cosmic radiation
- Ionising radiation
- Weathering in general

### Typical Applications

- General rubber parts (railway)

### Material Properties

Cure conditions: 1.5% (50% paste of bis (2,4-dichlorobenzoyl)-peroxide in silicone fluid), 10 min / 135°C in press, post-cured 4h / 200°C.

Property	Condition	Unit	Value	Method
<b>Appearance</b>	-	-	White	-
<b>Hardness</b>	-	° Shore A	45	DIN ISO 48-4
<b>Density</b>	-	g/cm <sup>3</sup>	1.14	DIN EN ISO 1183-1 A
<b>Tensile Strength</b>	-	N/mm <sup>2</sup>	9.0	ISO 37 type 1
<b>Elongation at Break</b>	-	%	670	ISO 37 type 1
<b>Tear Strength</b>	-	N/mm	40	ASTM D 624 B
<b>Compression Set</b>	22 h   175°C	%	15	DIN ISO 815-1 type B method A
<b>Volume Resistivity</b>	-	Ω-cm	10 <sup>15</sup>	IEC 62631-3-1
<b>Oxygen Index LOI</b>	-	%	31	ASTM D 2863

These figures are only intended as a guide and should not be used in preparing specifications. Size tolerance to ISO 3302-1: 2014.

This information and our technical advice, whether verbal, in writing or by way of trials, is given in good faith. Recommendations for use do not constitute a warranty, either express or implied, of the fitness or suitability of the product for a particular purpose. This also applies where proprietary rights are involved. Our advice does not release you from the obligations to check its validity and to test our products as to their suitability for their intended use. The storage, application and use of our products are beyond our control and, therefore, entirely your own responsibility. The information contained within this data sheet is subject to change without notice.