

VFR203-802

Flame Retardant Silicone Rubber (Aerospace 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
Appearance	-	-	White	-
Hardness	-	° Shore A	45	DIN ISO 48-4
Density	-	g/cm ³	1.14	DIN EN ISO 1183-1 A
Tensile Strength	-	N/mm ²	9.0	ISO 37 type 1
Elongation at Break	-	%	670	ISO 37 type 1
Tear Strength	-	N/mm	40	ASTM D 624 B
Compression Set	22 h 175°C	%	15	DIN ISO 815-1 type B method A
Volume Resistivity	-	Ω-cm	10 ¹⁵	IEC 62631-3-1
Oxygen Index LOI	-	%	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.

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