

## VGD250RL

### Flame Retardant Silicone Sponge (Rail Spec)

#### General Information

VGD250RL is a closed cell sponge designed specifically for the rail and mass transit industries, with low compression set, low smoke/toxicity and flame retardant properties. VGD250RL is **EN45545-2 R22/R23** compliant and maintains the benefits of extreme temperature stability, making it a fantastic choice of material for a range of applications.

#### Features

- Flame retardant
- Closed cell
- Low compression set
- Low smoke / Low toxicity
- Environmental resistance for interior & exterior use.
- Temperature resistance -50°C to + 200°C

#### Sizes

Standard profiles are available from 2mm to 75mm. Bespoke profiles may differ depending on shape.

#### Options

Available as sheets, sections, tubes, cord, bespoke profiles, gaskets, O-rings. Self-Adhesive backing optional. Black or grey colour

#### Typical Applications

- Interior door seals
- Smoke Seals
- Acoustic barriers
- Exterior lighting seals
- Lighting gaskets
- Gap fillers
- LCD gaskets
- Window seals
- HVAC seals
- Vibration insulation
- Exterior door seals

#### Material Properties

All testing undertaken on 10mm samples. Samples cured for 30mins at 150°C, and post cured for 4 hours at 220°C. Compression set and density may vary depending on product size and thickness.

Property	Value	Test
Appearance	Black/Grey	-
Density	250 kg/m <sup>3</sup> (±50)	ASTM D1056
Compression force deflection at 25% strain	45 kPa	ASTM D 1056
Compression force deflection at 40% strain	100 kPa	BSENISO 3386 pt 1, 2
Compression set @ 100°C, 22 hrs	<5%	ASTM D1056
Water Absorption	<5%	ASTM D1056
Limited Oxygen Index	36.5%	ISO 4589-2
Temperature Range	-50°C min +200°C max	

*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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