

Advanced Materials Limited

Unit 17, Arndale Road, Lineside Ind Est, Littlehampton, West Sussex BN17 7HD www.SiliconeRubberExtrusions.co.uk

E-mail: sales@amsilicones.co.uk

Telephone 01903 713566

VAT No: GB736923117 Company Reg no: 03577067

Flame Retardant Silicone Rubber Range An overview from Advanced Materials Ltd

We have a variety of flame-retardant grades suitable for a multiple applications including mass transit grades with low smoke and low toxicity, and other flame retardant grades that are more cost effective whist still boasting a good temperature range and flame retardant properties. The entire range can be used for profiles, seal, gaskets tubing and cord for industries including construction, automotive, railway, marine and aerospace applications. These rubbers can be supplied pigmented to pale shades.

FR70R is a market leading silicone rubber developed for mass transit; it boasts low smoke, zero halogen properties.

Smoke Opacity to AFNOR norm NFX10702 Smoke Index: SS.I approx: 6, and Smoke Toxicity to AFNOR norm NFX70100 conventional toxicity index: CIT approx. 2.7. and FAR 25.853(a), This grade has also been tested and complies with the requirements of EN 45545-2: 2020 (fire protection of railway vehicles) for the Hazard Levels HL1 – HL2 – HL3 Requirement sets R1, and R7 of this standard.

Our **FRxxSB2** range is a Flame Retardant grade suitable for extruding complex shapes and other items, it represents good value for money without compromising mechanical properties, and is available in a range of hardness'

	FR70R	FR40SB2	FR50SB2	FR60SB2	FR70SB2
Hardness (Shore A)	70	40	50	60	70
Specific Gravity (g/cm³)	1.28	1.2	1.2	1.2	1.2
Tensile Strength (N/mm²)	10.2	9	10	10	10
Elongation @ Break (%)	320	570	500	470	440
Tear Strength (N/mm)	19	16	21	21	22
Oxygen Index/LOI (%)	35%	> 30%	> 30%	> 30%	> 30%
BS6853 Cat 1	✓	-	-	-	-
UL94V0	3mm	6mm	6mm	6mm	6mm
NF F Standard	16 101 / 16 102	-	-	-	-
Temperature Range °C	-60 to +250°C	-60 to +200°C	-60 to +200°C	-60 to +200°C	-60 to +200°C