



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 whilst 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)

The **FR770/xxW** Range has been tested according to London Underground standards. It has a high temperature index with good mechanical properties and low toxicity combustion products generating low quantity of smoke

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

	FR70R	FR770/50W	FR770/60W	FR770/75W	FR50SB2	FR60SB2	FR70SB2
Hardness (Shore A)	70	50	60	75	50	60	70
Specific Gravity (g/cm ³)	1.28	1.16	1.52	1.54	1.2	1.2	1.2
Tensile Strength (N/mm ²)	9.0	9.4	4.1	4.1	10	10	10
Elongation @ Break (%)	270	690	400	220	500	470	440
Tear Strength (N/mm)	15	40	15	16	21	21	22
Oxygen Index/LOI (%)	35	30	30	35	-	-	-
BS6853 Cat 1	✓	✓	✓	✓	-	-	-
UL94V0	3mm	-	-	-	6mm	6mm	6mm
NF F Standard	16 101 / 16 10	-	-	-	-	-	-
Temperature Range °C	-60 to +250°C	-40 to +300°C	-40 to +300°	-40 to +300°	-60 to +200°	-60 to +200°	-60 to +200°

Figures given above are for guidance only and should not be used in preparing specifications. For some of these grades more detailed data sheets are available.

E & O.E.
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