

Material Data Sheet



Fire Retardant Silicone

Fire retardant or low smoke-low toxicity hoses are manufactured from specially formulated silicone rubber compounds that contain alumina hydrate, they burn less readily than standard silicone materials and tend to self extinguish. Since they do not contain bromine or other halogen based flame retardant additives they will not evolve toxic by-products in a fire situation.

They are typically used in passenger transport applications such as Railway Locomotives and Carriages and for Buses and Coaches.

Characteristics:

Fire Resistance: UL 94 V0 @ 3mm, UL 94 V1 @ 2mm.

Limiting Oxygen Index: 35%.

ANFOR NFF 16-101 Classification F1 I2.

BS6853: 1999 Category 1, Tables 7 & 8.

Rubber Properties:

<i>Property</i>	<i>Result</i>
Hardness Shore A	68°
Specific Gravity	1.32
Tensile Strength	9 MPa
Elongation at Break	270%
Tear Strength	15 N/mm
Rebound Resilience	47.0%
Colour	Grey