

MF775 – Low Combustion Hazard Solid Silicone Rubber

Temperature Range:

-60°C to 230°C

Availability:

MF775 is available in the form of sheeting, mouldings, profile extrusions and can also be used to manufacture insulation for cables. It is particularly suited to use in engineering applications where public safety is a main concern. There is a wide range of standard colours available; although not all colours can be matched we have a large amount of experience being able to produce these materials in colours that our tailored to our customers requirements.

Specifications:

MF775 satisfies the BS 6853 Category 1a requirements and meets the requirements of the LUL code of practice for fire safety (materials used in underground: August 1990). MF775 has been tested to NF F 16-101 by Laboratoire De Trappes, and has been accredited with I2 and F0 classification.

Flammability:

Property	BS6853 Category 1a	MF775
Temperature Index	>300°C	341°C
Flame Length	<50mm	<50mm
Limiting Oxygen Index	>34%	34.7
A ₀ Smoke Index	<0.017	0.0162

NFF Test	NFF Test Method	MF775
Smoke Index	NFX 10.702	10.4
Conventional Index of toxicity	NFX 70.100	6.28
Class	-	F0
Glow Wire Test	NFC 20.455	Classified I2*

*Class I2: Oxygen Limit of more than or equal to 32% and no ignition at 850°C glow wire.

Environmental Resistance:

Silicone rubber products have an excellent resistance to ozone, oxidation, ultraviolet light, corona discharge, cosmic radiation, ionising radiation and weathering in general.

Mechanical Properties:

Property	Units	Specification Limits	Typical Value	Test Method
Hardness	IRHD	N/A	75	BSISO 48 ASTM D2240 DIN
	Shore A	70+/-5	70	
Tensile Strength	MPa	5.5min	7.0	BS ISO 37 DIN 53504 die S1
Elongation to Failure	%	130min	190	BS ISO 37 DIN 53504 die S1
Compression set 24hrs @ 150°C	%	N/A	20	BS 903 pt A6 type B DIN 53517 type II

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