

EN-45545 MF775 Silicone Sheeting

This solid silicone sheeting is part of our EN-45545 flame retardant range. EN-45545 is a regulation set out by the European Union to standardise the fire testing of materials used in railway applications. MF775 was formally compliant with two fire safety tests which are now superseded by EN-45545. This sheeting is a great option for use in any enclosed environment where fire safety is a primary concern. When ignited, the compound will demonstrate low flame propagation, low smoke generation and low emission of toxic gases.

Approvals

BS 6853 Category 1A, NF F 16-101 (L0, L2), EN 45545-2 HL2 (R1, R7, R22 and R23), FAR 25/ JAR 25/ CS 25 Flammability Test, Automotive Standard Part 571FMVSS302, LUL S1085, REACH, RoHS, UL94 V0 at 3mm and UL94 V1 on 2mm (Material has been independently tested to the UL94 criteria but is not UL listed as such).

Operating temperature range: -55°C to 230°C

Physical Property	Test Method	Units	Typical Values
Hardness	ASTM D412	ShA	73
Elongation at Break	ASTM D412	%	320
Tensile Strength	ASTM D412	MPa	10.2
Compression Set 24hrs @175		%	20
Brittle Point	ASTM D746	°C	-80
Thermal Conductivity	VDE 0304	W.m ⁻¹ .K. ¹	0.24
Limiting Oxygen Index	BS 2782 Part 1	%	24
Radiation Resistance		Grays	>105
Dielectric Strength	VDE 0303	kV.mm-1	23
Dielectric Constant	VDE 0303		2.9
Dissipation Factor	VDE 0303		3x10 ⁻⁴
Volume Resistivity	VDE 0303	ohms.cm	3x10 ¹⁵

Although the technical details and recommendations made correspond to the best of our knowledge and experience, all the above information must, in every case, be taken as merely indicative and subject to confirmation after long-term practical application; for this reason, anyone who intends to use Polymax products must ensure beforehand that it is suitable for the envisaged application. In every case, the user alone is fully responsible for any consequences deriving from the use of the product. All sales subject to our standard terms www.polymax.co.uk/sales-terms