

Data Sheet

ASTM D178 Type II Class 1 Electrical Matting

Data Sheet Type	Final
Material Reference	ASTM D178
Polymer	SBR/NR BLEND
Date Issued	16/07/24



Description

High Grade Electrical Insulation Matting that meets the technical requirements of ASTM D178 Type II Class 1.

Specifically designed to be Low Smoke for high safety interior applications around switchgear, it is also widely used on vehicles, commercial vessels and both surface and subsea naval ships where there is a need to protect personnel from risk of smoke inhalation.

Type II Class 1 material is breakdown tested to 20,000 volts, Proof Tested to 10,000 volts and approved for use in applications up to 7,500 Volts.

Materials are also available to meet Class 2 and Class 3 requirements.

Specifications	Values	Test Methods
Accelerated Ageing - Change in Tensile Strength (168 Hours @ 70°C)	103 %	BS903 Part A19 Method A
Colour	Black	None
Electrical Proof Test	10,000 Volts AC Pass	BS EN IEC61111
Elongation at Break	317 %	ASTM D412
Flame Resistance	0.12 mm/s ASTM D178	BS EN IEC61111
Highest Recommended Working Temperature	70 °C	None
Lowest Recommended Working Temperature	-20 °C	None
Oil Resistance	0.04% ASTM D471	BS EN IEC61111
Ozone Resistance	Nil Visual Degradation ASTM D1149 Method A	ASTM D1149 Type A
Recommended Maximum Use	7,500 Volts AC	BS EN IEC61111

Purposes



**Important Notes about this Material Data Sheet**

This datasheet has been carefully compiled to advise you, our customer, in the best possible way. The information, figures, test values, and data correspond to actual engineering standards and are the result of many years of tests and trials. As individual operating conditions influence the application of each product, the information supplied in this datasheet can only be seen as a rough guideline. In every case it is the sole responsibility of the customer to evaluate his individual requirements, in particular whether the specified properties of our products are sufficient for the intended use. This datasheet is subject to alteration without prior notice. All mentioned values contained herein are guiding values representing long-term experience averages. Please be aware that Test Results for individual Material Batches will only be provided if requested at the time of order and may be subject to additional charges and/or lead times. This Data Sheet supersedes all previous data sheets and any other data previously provided either Verbally, Electronic or Written, with reference to the above Material Grade.