JAMES CROPPER



TECNOFIRE®

E22M+R MAT

67152F

TECNOFIRE® provides integral and effective fire protection for composites, resisting burn through, flame spread, and heat insulation without compromising structure or requiring time-consuming application.

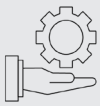
TECNOFIRE® 67152F

MATERIAL INFORMATION

TECNOFIRE® materials are classified as intumescents, they expand as a result of heat exposure to provide passive fire protection. The material will expand uni-directionally in the z direction when it is exposed to fire or temperatures in excess of 190°C (374°F), producing a thick insulative and stabilised char which reduces the degradation of the underlying composite materials by insulating them from heat energy.

DESCRIPTION	Semi-flexible thermally expandable intumescent mat containing epoxy resin
COMPOSITION	Graphite based, with mineral & glass fibres and epoxy resin
ACTIVATION TEMPERATURE	>190°C / >374°F
TYPICAL EXPANSION RATIO	22 : 1 (at 450°C / 840°F)
FIRE TEST DATA	E22M+R Mat has been tested in accordance with ASTM E84-11a. It recorded a Flame Spread Index (FSI) of 0 and a Smoke Development Index (SDI) of 2, achieving a CLASS A rating. This qualifies E22M+R Mat for use in walls, ceilings and plenums. E22M+R Mat also recorded a Fire Propagation Index of 7.5 in BS476 Part 6 testing and achieved Class 1 in BS476 Part 7, which measures the lateral spread of flame.

PERFORMANCE



- REDUCES SMOKE AND HEAT RELEASE WITHOUT TOXIC FUMES
- DOES NOT DISRUPT MECHANICAL PROPERTIES
- HIGH EXPANSION RATIO

COMPLIANCE



- PROTECTS THE UNDERLYING STRUCTURE FROM HEAT AND FIRE
- HELPS PASS KEY FIRE SAFETY STANDARDS

REDUCED PROCESSING



- CAN BE SUPPLIED WITH SELF ADHESIVE BACKING FOR EASY APPLICATION
- RESIN INFUSED FOR INCREASED DURABILITY

WATCH TECNOFIRE IN ACTION

TECNOFIRE® 67152F

MATERIAL PROPERTIES

THICKNESS AT 10 kPa (1.45lb/in²)	mm mil	0.65 25
TYPICAL DENSITY AT 10 kPa (1.45lb/in²)	kg/m³ lb/ft³	966 63
RESIN CONTENT	%	30

The data in the table represents indicative values only. The user must be satisfied that the product is entirely suitable for the intended application.

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MATERIAL USE

This grade has been infused with epoxy resin and is part of our range of enhanced durability TECNOFIRE®. It has a high expansion ratio of 22:1 and is particularly suited to use in gap filling applications in bridge and building construction.

It is used extensively in the construction of 30-, 60- and 90-minute fire rated doors where is has been Intertek certified (UL10C and NFPA 252) and awarded the Warnock Hersey Mark as part of a fire door assembly.

TYPICAL APPLICATIONS

CONSTRUCTION - BRIDGES, STRUCTURAL PANELS AND GAP FILLING | FIRE DOORS

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MATERIAL SUPPLY

SUPPLY FORM	Sheets
SHEET WIDTH	610mm / 1220mm
SHEET LENGTH	2440mm
PACKAGING	Crate (100 sheets per crate)
CONVERTING OPTIONS	Application of self adhesive backing (SAB).

ACCREDITATIONS

We provide assurance that all TECNOFIRE® materials are of the highest possible quality and our manufacturing processes are accredited to BS EN (AS) 9100: 2018 Global Aerospace Quality Standard, ISO 9001 : 2015 Quality Standard, ISO 14001 : 2015 Environmental Management and the OHSAS 18001 : 2007 Occupational Health & Safety Standard.

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