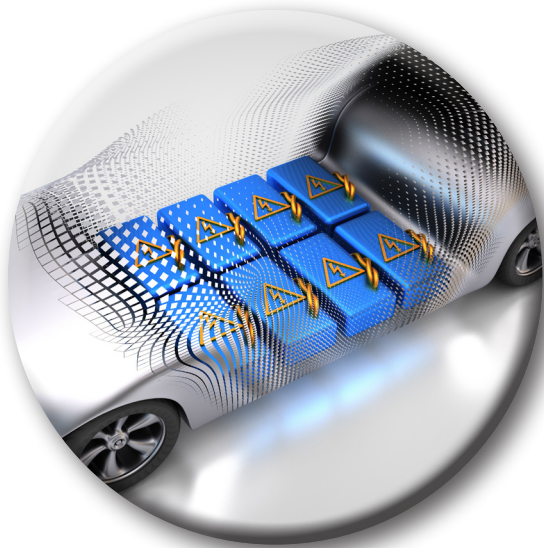


Permabond®

Fire Retardant Range

ISO 9001 Certified
 "Our Science ... Your Success"

Permabond's Fire Retardant Range has been specifically created to help a multitude of industries provide Fire Retardant solutions. From electronics to electric vehicle battery bonding, transport interior composite bonding to building cladding, shopfitting and construction - all products have been tested to meet UL94 V-0 requirements.



Ideal for bonding:

ABS

Aluminium

Carbon Fibre

Ceramic

Composites

FRP / GRP

Nylon

PC / PMMA/PVC

Steel

Zinc

Zintec

+ many more materials

Permabond® Fire Retardant Range Features & Benefits

- All products featured here meet UL94 V-0 fire retardance requirements
- Variety of colour options
- Variety of curing options
- Thermally conductive grades available
- Variety of gap filling options
- Options for most substrate materials
- Self-extinguishing with no burning drips
- TA4230 Fast, high structural strength development
- Electrically insulative
- ET5272 Slow cure for spreading over large panels

Ideal for:

- Building cladding & fascias
- Potting electronic components, batteries & connectors
- Strain relief of cables
- Laminate & composite bonding for trains, trams, boats, buses & coaches
- Switch sensor bonding & potting



Fire Retardant Product Data

The following technical data table for Permabond Fire Retardant products is a guideline & does not constitute a specification. For full technical information, please refer to the technical data sheet, available at www.permabond.com.

Our experienced worldwide trained distributor network means no matter where in the world you are located, Permabond representatives can be called upon to assist you with your bespoke applications.

	ES578	ET5272	MT3836	TA4230
Description	1-part epoxy, heat cured	2-part epoxy, room temp' cure	2-part MS polymer, room temp' cure	2-part toughened acrylic, room temp' cure
Appearance	Black	Mixed: Grey	Mixed: Cream	Mixed: Straw
Features	Meets UL94 V-0 requirements Designed for heat dissipation Excellent thermal conductivity	Meets UL94 V-0 requirements Exceptional bond to a variety of materials Controlled flow properties	Meets UL94 V-0 requirements Excellent thermal conductivity Good gap fill abilities Flexible	Meets UL94 V-0 requirements Excellent shear strength on most substrates Minimal surface preparation required
Viscosity @25°C mPa.s	Thixotropic paste	Thixotropic paste	Paste	3000
Max. Gap Fill	5 mm (0.2 in)	2 mm (0.08 in)	5 mm (0.2 in)	0.5 mm (0.02 in)
Specific Gravity	1.6	1.5	1.4	1.07
Thermal Conductivity	1.0 W/(m.K)	N/A	1.05 W/(m.K)	0.28 W/(m.K)
Handling Time	N/A	N/A	2-3 hours	10 - 20 mins
Full Cure	25 mins @ 170°C	2 hrs @ 60°C	> 72 hours	24 hours
Shear Strength (Steel)	27 - 41 N/mm ²	> 15 N/mm ²	2 - 2.5 N/mm ²	27 - 32 N/mm ²
Peel Strength	N/A	N/A	50-70 N/25mm	100-200 N/25mm
Shore Hardness	80-85 (D)	N/A	60 (A)	80-85 (D)
Service Temp	-40°C to 180°C	-40 to +80°C	-40°C to 120°C	-40°C to 120°C
Packaging	10 x 125g cartridges 10 x 320ml cartridges Bulk on request	10 x 50ml cartridges 6 x 400ml cartridges Bulk on request	6 x 400ml cartridges Bulk on request	50ml dual cartridges 400ml dual cartridges Bulk on request
Storage Temp	2-7°C	5 - 25°C	5 - 25°C	2 to 25°C



www.permabond.co.uk
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Authorised distributor stamp:



The information given and the recommendations made herein are based on our experience and are believed to be accurate. No guarantee as to, or responsibility for, their accuracy can be given or accepted, however, and no statement herein is to be treated as a representation or warranty. In every case we urge and recommend that purchasers, before using any product, make their own tests to determine, to their own satisfaction, its suitability for their particular purposes under their own operating conditions. Always refer to current product technical datasheet for most recent and accurate technical information.