

Araldite® 1570 FST A/B

Epibond® 8000 FR A/B

FST adhesives for structural bonding of interiors parts

Araldite® 1570 FST A/B and Epibond® 8000 FR A/B demonstrate exceptional in-fire behavior.

Araldite® 1570 FST A/B and Epibond® 8000 FR A/B are extrudable, two component epoxy structural adhesives designed for applications requiring FST (flame, smoke, toxicity) properties.

Applications in aerospace

- > Structural bonding of aircraft interior parts
- > Recommended on metal and plastic substrates
- > Available in cartridges

Araldite® 1570 FST A/B

Semi-rigid adhesive with high elongation at break

- > Long pot life at room temperature
- > Outstanding FAR 25.853 FST properties
- > Dark grey paste
- > Qualified to Airbus AIMS 10-04-006

Epibond® 8000 FR A/B

Rigid adhesive with high lap shear strength (LSS)

- > Accelerated cure at room temperature
- > Meets FAR 25.853 FST requirements
- > Off-white paste



FST adhesives for structural bonding of interiors parts

Typical thermal and mechanical performance

		Araldite® 1570 FST A/B	Epibond® 8000 FR A/B
Tensile lap shear strength	AI / AI	Room temperature cure time to 10 MPa: 10 h	Room temperature cure time to 10 MPa: < 4 h
		16 MPa at 23°C ⁽¹⁾	27 MPa at 23°C ⁽²⁾
		13 MPa at 70°C ⁽¹⁾	17 MPa at 70°C ⁽²⁾
	PC / PC	3 MPa at 23°C ⁽¹⁾	3 MPa at 23°C ⁽²⁾
	PVC / PVC	6 MPa at 23°C ⁽¹⁾	5 MPa at 23°C ⁽²⁾
Tensile strength	Neat resin	20 MPa at 23°C	36 MPa at 23°C
E-modulus		580 MPa at 23°C	3 500 MPa at 23°C
Elongation at break		39%	2.5%
DMA Tg		70°C ⁽¹⁾	70°C ⁽²⁾

⁽¹⁾ Cure cycle: 16h at 40°C | ⁽²⁾ Cure cycle: 1.5h at 55°C

Typical FST performance

	Araldite® 1570 FST A/B	Epibond® 8000 FR A/B
Vertical burn 60 s		
Flame extinguish time	0 s	10 s
Burn length	40 mm	70 mm
Drip extinguish time	No drip	No drip
Toxic gas concentration of smoke at 4 min		
HCN	5 ppm	25 ppm
CO	90 ppm	85 ppm
NOx	7 ppm	80 ppm
SO ₂ +H ₂ S	2 ppm	10 ppm
HCl	0 ppm	5 ppm
HF	0 ppm	1.5 ppm
Smoke density after 4 min	46	97

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