

## E-767 Epoxy

Park's E-767 is a versatile, low flow, adhesive grade epoxy resin. When impregnated on fiberglass fabric it provides high bond strength at elevated temperatures while maintaining high electrical integrity.

### Key Features & Benefits

- High Tensile Shear Strength
- Excellent electrical Properties
- High peel strength
- Good thermal properties

### Product Forms

- Typical reinforcements are 1080 and 116 glass cloth Available in solution coated fabrics up to 1.5 meters wide

### Applications/Qualifications

The prime application of Park's E-767 Epoxy is in bonding metallic surfaces to base materials for printed circuit boards, comparable to G10. It is also an excellent adhesive for metal to metal bonding such as stainless steel or aluminum to itself. Copper and other metallics may be bonded to epoxy, polyester, Kapton®, Mylar® and other such dielectric systems. In addition to controlled flow, the E-767 on fiberglass cloth will maintain a specific bond line thickness. Selection of other fabric carriers will enable the user to vary this bond line thickness according to his or her needs. Other applications have included multilayer, heat sink bonding and overlay.

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### E-767 Epoxy

#### Prepreg Specifications

Reinforcement	108 Glass
Resin solids	60-70%
Resin Flow (170°C, 345 kPa) (%)	1-5%
Gel Time (170°C), sec	10-60
Roll length	230m Nominal (96.5 cm width)/230 m (.97m)

#### Adhesion Properties

	Typical Values	Test Methods
Copper Bond Peel Strength 35 micron @ 21°C	15 lbs/in. / 2.1 N/mm	MIL-P-13949
Solder Blister Resistance - @ 260°C	20 sec. min.	MIL-P-13949
Tensile Shear		
@ 25°C Aluminum to Aluminum	28.3 kPa	ASTM D-1002
@ 25°C Steel to Steel	29.3 kPa	ASTM D-1002
@ 100°C Aluminum to Aluminum	4.8 kPa	ASTM D-1002
@ 100°C Steel to Steel	13.8 kPa	ASTM D-1002

Satisfactory properties may be obtained using pressures from contact to 500 psi (3450 kPa). Typical cure cycles range between 350°F to 400°F (180° to 200°C) for a minimum of 45 minutes.

## Processing Guidelines

#### Prepreg Storage Life

- Out Life: 15 days @ 24°C
- Shelf Life: 12 months @ -18°C

All test data provided are typical values and not intended to be specification values. For review of critical specification tolerances, please contact a company representative directly.

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