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**Conductive Adhesives**

Electrically conductive adhesives-Ag-filled epoxy systems for PCB's · [www.resinlab.com/adhesive/el](http://www.resinlab.com/adhesive/el)

**Epoxy**

**Additives:** glass fiber reinforced

**Application:** sheet molding compound (SMC)

[List of Suppliers](#)

**Material Properties**

Mechanical Properties		Conditions		
		State 1	State 2	ASTM
Elastic Modulus (MPa)	13800 - 27600	tensile		D638
Flexural Modulus (MPa)	13800 - 20700	23 °C		D790
	10350 - 17250	93 °C		D790
	8280 - 12420	149 °C		D790
Tensile Strength (MPa)	138 - 242	at break		D638
Compressive Strength (MPa) at yield or break	138 - 207			D695
Flexural Strength (MPa) at yield or break	345 - 483			D790
Elongation at break (%)	1 - 2			D638
Hardness	55 - 65	Shore B		D638
Izod Impact (J/cm of notch) 1/8" thick specimen unless noted	15.9 - 21.2			D256A

Thermal Properties		Conditions		
		Pressure	State	ASTM
Coef of Thermal Expansion (10 <sup>-6</sup> /°C)	12			D696
Deflection Temperature (°C)	288	1.82 MPa		D648
Thermal Conductivity (W/m-°C)	0.071 - 0.079			C177

Physical & Electrical Properties		Conditions	
		State	ASTM
Specific Gravity	1.4		D792
Water Absorption (% weight increase)	0.1	after 24 hrs	D570

Processing Properties		Conditions	
		Type	ASTM
Melting Temperature (°C)	thermoset	T <sub>m</sub> , crystalline	
Processing Temperature (°C)	132 - 166	compression molding	
	132 - 166	transfer molding	
Molding Pressure (MPa)	3 - 14		
Compression Ratio	2		
Linear Mold Shrinkage (cm/cm)	0.001		D955

**Suppliers**

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### **3M Scotch-Weld Epoxy**

Buy 3M Scotch-Weld Epoxy Adhesives Online. In stock. Dispensers. · [www.ellsworth.com/3m/scotch-weld/](http://www.ellsworth.com/3m/scotch-weld/)

### **Injection Molded Kynar**

Injection molded PVDF Injection molded ETFE · [www.cyplas.com](http://www.cyplas.com)

### **High Temperature Epoxy**

Succinic Anhydrides, Nadic Methyl Anhydrides - Get a Quote Now. · [broadview-tech.com](http://broadview-tech.com)

### **Thermoform Parts/Sampling**

Sampling to low volume production Trim in place forming capabilities · [www.angletoolworks.com](http://www.angletoolworks.com)

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