




F-6975

**TECHNICAL  
INFORMATION**

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 D-TI-000F6975-055-A  
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Epiform F-6975 is a formulated powder epoxy resin used for the coil insulation.

[ Features ]

- High melt-flow rate
- Fast curing
- Good electrical resistance
- Good heat resistance
- Good adhesive strength

[ Powder Properties ]

Item	Unit	Value
Appearance	—	gray powder
Gel Time (200°C)	sec	22
Horizontal Flow Rate (140°C)	%	28
Bulk Density	g/cm <sup>3</sup>	0.78
Shelf Life (at 20°C)	month	> 3

[ Cured Properties ]

Item	Unit	Value
Volume Resistance	$\Omega \cdot \text{cm}$	$2.5 \times 10^{16}$
Breakdown Voltage	kV/mm	37.4
Cut-Through Resistance	°C	400
Glass Transition Temperature	°C	128
Co-Efficient of Linear Expansion	1/°C	under T <sub>g</sub> : $36 \times 10^{-6}$ over T <sub>g</sub> : $110 \times 10^{-6}$
Impact Strength ( Head 1/8 inch $\phi$ , 500g )	cm	25
Longitudinal Shear Strength ( Iron/Iron : SPCC-SD )	MPa	25°C : 20.0 230°C : 1.4
Cross-Cut	—	0/100

The values herein are only reference, not specified figures.

Curing condition of the samples above : 190°C × 20min.

The above values are tentative averages and not intended for specification purposes.