



## F - 472

TECHNICAL INFORMATION

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Epiform F-472 is a powder epoxy resin designed for the purpose of insulating electric parts. It is particularly suitable for bus bars and could also be used for coil impregnation and iron core coating.

A cured layer of Epiform F-472 has excellent insulation properties as shown in electric resistant and breakdown voltage. It also possesses flexibility and fire-resistivity.

## 1. Powder Properties

Item		Unit	Value	Measuring method
Horizontal melting flow rate 140°C		%	12	Somar internal method
Gel time	200°C	sec	23	JIS C 2161
Bulk Density		g/cm <sup>3</sup>	0.65	JIS C 2161
Particle distribution	Mean particle size	um	55	Dry dispersion laser analysis
	Fine content (Below 10 μ m)	%	7	

## 2. Cured properties

Item	Unit	Value	Measuring method
Glass transition temperature	°C	110	JIS C 2161 (DSC)
Cupping resistance	mm	8	JIS C 2161
Barcol hardness	_	75	JIS C 2161 (GYZJ935)
Lap top shear strength	MPa	15	JIS K 6850 (SPCC-SPCC)
Impact strength	cm	30	JIS C 2161 (Impact head R=3.18mm, load500g)
Breakdown voltage	kV/0.5mm	18	JIS C 2161 (t=0.5mm)
Volume resistivity	Ω·cm	1 × 10 <sup>16</sup> or more	JIS C 2161 (t=3mm)
Tracking resistant (Comparative tracking index)	_	175	JIS C 2161
Flame retardancy	_	V−0 approved	UL94 Vertical Burn Test

Test pieces curing condition: 30minitues at 150°C

## 3. Curing conditions

Curing at 130 to 200°C for 5 to 60 minutes is recommended.

Based on intended application, high temperature and short curing time are possible



All values above are representative values