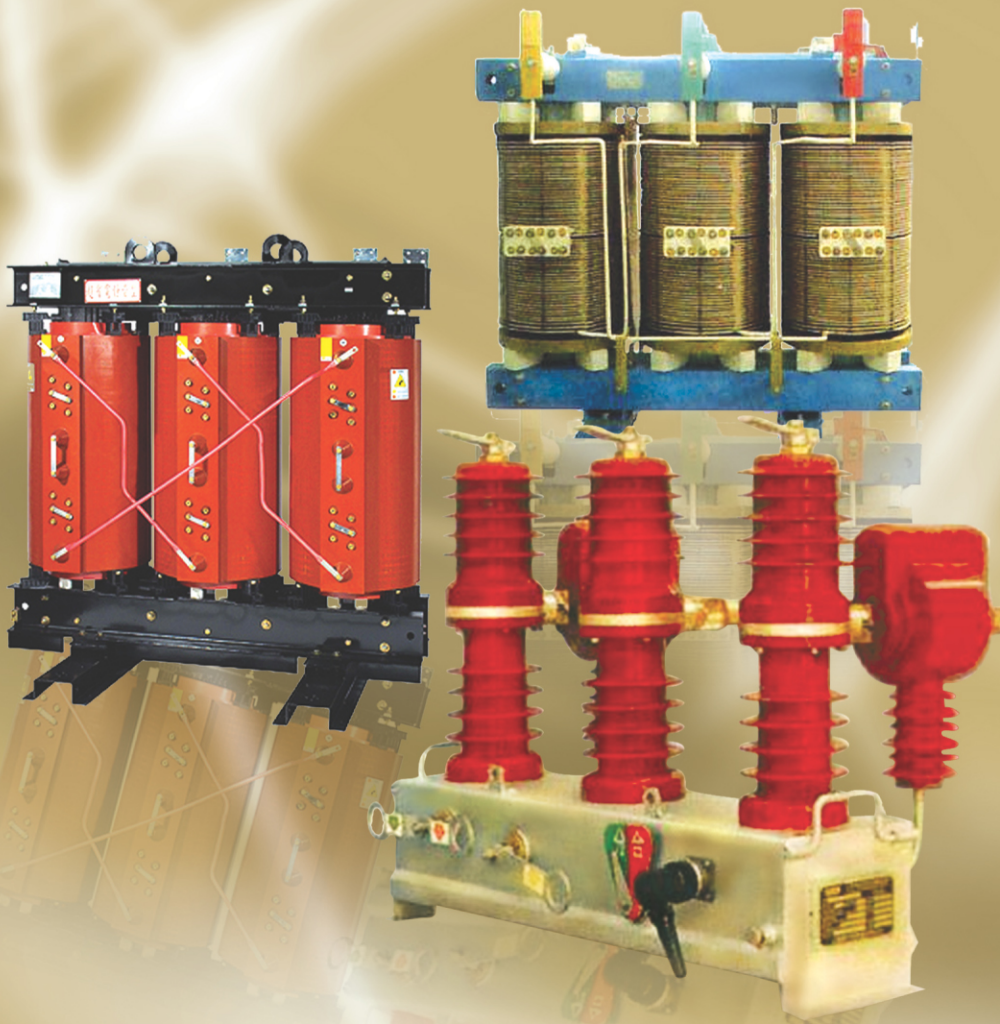


Composite Materials for Cast Molding



To meet the Market Needs



Special formulated Composite Materials for various fields The typical cured Properties of Heavy Electric Cast-Molding system

- High Voltage Transformers(CT,PT) / GIS Insulators / Switchgear / Bushings
- Ignition Coils for Automobiles. High Voltage Transformer

We provide on extensive lineup of products to customers in various industries.



Main Office : 7-16 Songdo -Dong, Yeonsu-Gu, Incheon Korea
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The typical cured Properties of Cast Molding system

These products are widely used for die cast molding for heavy electricity.

The reaction is very stable during its curing.

Good electrical & mechanical properties and excellent insulation & durability.

Application : High mechanical properties such as swithgear, Bushing, CT/PT bracket.

High voltage transformers.

Ignition Molding system for automobiles.

Casting Resin for High Voltage Transformer

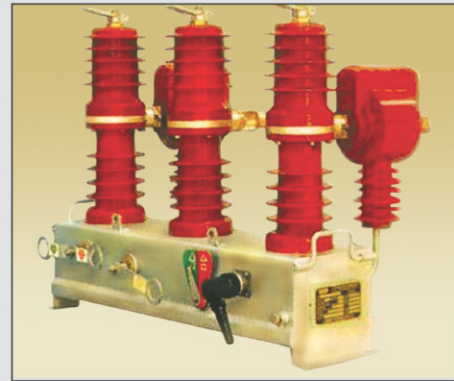
Model : EML - 700

General Characteristics

- Good workability
- High filler sedimentation
- Excellent heat thermal resistance properties
- Long pot Life
- Excellent Impregnation
- Excellent mechanical properties and electrical Properties
- Excellent dampproofing property

Application

Vacuum Breakers



ITEM		UNIT	EML-700 (Part-A)	EML-700 (Part-B)	REMARK
General characteristics	Base resin	-	Epoxy resin	Anhydride Modified	-
	Viscosity	cps, at40 °C	35,000	80,000	BHty Viscometer
	Density	at25°C	1.73	1.84	-
Working condition	Volatility	wt%	non		-
	Mixing ratio	wt%	100 / 100		-
	Mixed viscosity	cps, at40°C	50,000 ~ 60,000		BH type Viscometer
	Gel time	at120°C, min	20 ~ 30		1cc Scale
	Pot life	at40°C, hr	< 10		-
Electrical properties	Cure condition	80°C X 4hr + 120°C X 7hr			Oven
	Tg	°C	95 ~ 100		DSC
	Dielectric constant	50Hz	4.12		JIS-6911
	Volume resistivity	Ωcm,	3.85 × 10 ¹⁶		JIS-6911
	ACR resistance	sec	185 ~ 195		"

The typical cured Properties of Heavy Electric Molding /Casting system

Ignition Molding Systems

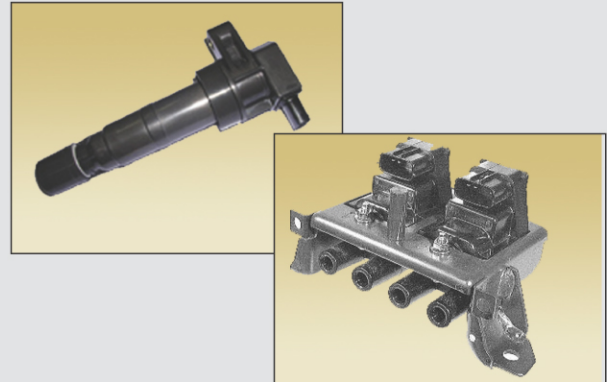
Model : EML-750

General Characteristics

- Excellent electrical resistivity in high temperature environment
- Low filler sedimentation
- Excellent heat thermal resistance properties
- Long pot Life
- Excellent Impregnation
- Excellent mechanical properties and electrical properties

Application

Standard Motor Products Ignition Module

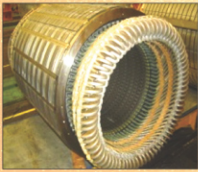


ITEM		UNIT	EML-750 (Part-A)	EML-750 (Part-B)	REMARK
General characteristics	Base resin	-	Epoxy resin	Anhydride Modified	-
	Viscosity	cps, at40°C	78,000	80(at25°C)	BH type Viscometer
	Density	at25°C	1.78	1.2	-
	Volatility	wt%	non		-
Working condition	Mixing ratio	wt%	100 / 30		-
	Mixed viscosity	cps, at25°C	5,100		BH type Viscometer
	Gel time	at120°C, min	20 ~ 30		1cc Scale
	Pot life	at40°C, hr	< 6		-
	Cure condition	90°C X 3hr + 140°C X 3hr			Oven
	Tg	°C	118 ~ 120		DSC
Electrical properties	Flexural strength	kgf/cm ²	1,420		JIS-6911
	Flexural modulus	kgf/cm ²	70,300		"
	Dielectric constant	50Hz, at25°C	4.0		"
		50Hz, at100°C	4.2		
	Dielectric factor	50Hz, at25°C	0.53		"
		50Hz, at100°C	1.48		
	Volume resistivity	Ωcm, at25°C	2.0x10 ¹⁶		JIS-6911
Ωcm, at100°C		5.83x10 ¹⁵			
ACR resistance	sec	190		"	

Our products

VPT Varnish

Model : NSR-1000



- VPI epoxy resin of which is applied on high voltage insulation system are required the high reliability, easy impregnation, low weight loss and low cost production
- Low viscosity gradual curing and long pot life

PMP Starter motor

Model : IVL-5074



- IVL-5074 is excellent heat resistance, chemical resistance, and good appearance after cured
- Long pot-life (recycle possibility)
- Small size general motor / High voltage transformer coating

Sensor molding

Model : EML-7400



- This product is especially suited for use in protecting sensors used in harsh environments such as automotive applications
- EML-7400 is a component epoxy system that cures at 125~140°C

Gab-Filling Paste

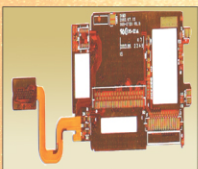
Model : TG-5000/6000



- A gap-filling paste reliably fills spaces between high copper tracks on outer layers before soldermask application. It ensures proper soldermask edge coverage along with a higher reliability especially of high power boards in automotive and other thick applications

Polyimide-Epoxy Modified resin

Model : EIR-1301



- 2FCCL/F-PCB
- Topcoat on enamel coated wires and motors
- High heat resistance coating varnish



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