



EPOXY RESIN PRODUCTS



EPX-7410

TECHNICAL
INFORMATIOND-TI-0EPX7410-001-A
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Epiform EPX-7410 is an epoxy coating powder mainly designed for insulation coating of HEV and EV motor, which can be applied by electrostatic bed, electrostatic spray, and fluidized bed coating

1. Characteristics

- ①. High temperature resistance.
- ②. Excellent insulation properties.
- ③. Good dielectric performance

2. Properties

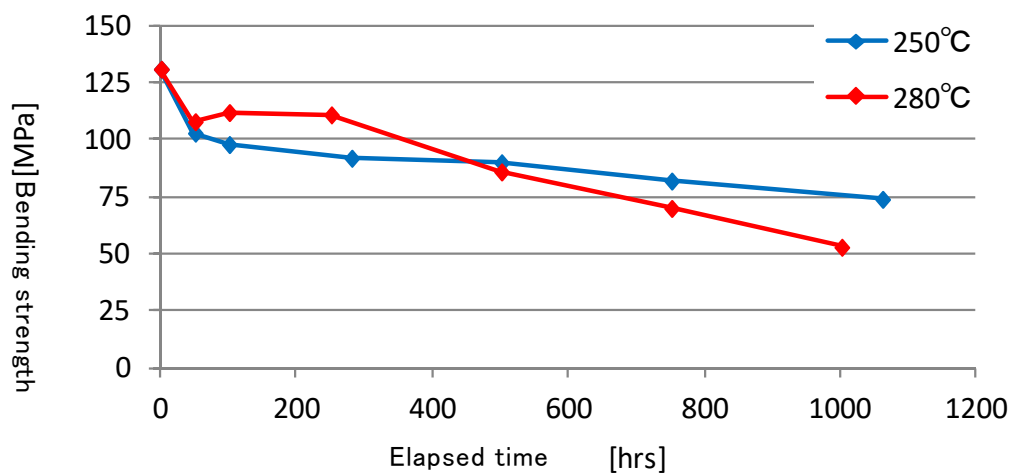
Item		Unit	Value	Method
Powder Properties	Appearance	—	Light yellow	Visual inspection
	Gel time 200°C	sec	17	JIS C2161
	Horizontal melt flow 200°C	%	35	Company method
Properties after curing	Tg TMA	°C	165	JIS K7121
	CTE 30~80°C	ppm/K	31	JIS C2161
	190~240°C		105	JIS C2161
	30~240°C		60	JIS C2161
	Bending strength	MPa	130	Company method
	Bending modulus	MPa	5,700	Company method
	Breakdown voltage	kV/0.5mm	21	JIS C2161
	Lap shear strength SPCC/SPCC	MPa	10	弊社法
	Volume resistivity	Ω・cm	1×10 ¹⁶	JIS C2161
	Dielectric constant 1kHz, t=0.6mm	—	2.62	JIS C2161
	Dielectric loss 1kHz, t=0.6mm	—	0.0027	JIS C2161
	Dielectric loss tangent 1kHz, t=0.6mm	—	0.0011	JIS C2161
	UL Class	—	H Class equivalent	JIS C 4003

3. Long-term heat resistance

●Appearance change (280°C)

Item	Elapsed time [hr]				
	0	250	500	750	1,000
Picture					
Crack	None	None	None	None	None
Swelling	None	None	None	None	None
Warping	None	None	None	None	Warp

●Bending strength change (250°C、280°C)



These values are representative values, not for specification purpose