

Typical Properties of Cured Varnish Film

Specimen curing – 14h at 140 o C Test as per DIN 46456			
Dielectric strength	At 25 oC	kV/mm	65
	At 130 oC	kV/mm	60
	24h water immersion at RT	kV/mm	35
Volume resistivity (1000VDC)	At 25 oC	ohm.cm	10 ¹⁴
	At 130 oC	ohm.cm	10 ¹⁴
	240h water immersion at RT	ohm.cm	10 ¹⁴
Dielectric constant at 30 V/1kHz	At 25 oC		3.0
	At 130 oC		4.0
Water absorption	96h water immersion at RT	mg	7.0
Bond strength Coefficient	At 25 oC		14
	At 130 oC		2

PACKING

Bawa G-One : 21 & 200 Kg. in Mild steal drum
Thinner GC : 21 & 180 Kg. in Mild steal drum

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BAWA G-ONE

Bawa G ONE is polyurethane based baking impregnating varnish of Temp. Index 130. It is used for impregnation of electrical equipments, stator for hermetic motors operating with refrigerants R-12 and R- 22.

Bawa G ONE can be used for bonded glass fiber covered conductors of temperature index 155 in conjunction with Bawa G two. It can be applied by dipping or vacuum impregnation method.

Chemical Properties

Colour appearance			Pale yellow clear liquid
Solid Contents	1.5g/150°C/2h	%	46 – 48
Viscosity at 30°C	By ford cup B4	S	20 – 30
Viscosity at 27°C	IS 3944/Cup no. 4	S	60 (typical)
Density at 25°C	DIN 51757	g/ml	1.03 (typical)
Flash point	DIN 53213 (Closed cup)	oC	30 (typical)
Recommended thinner			Thinner G
Shelf life	If stored in original sealed container under covered storage at room temperature	Months	6

SUGGESTED CURING TIME:

- (a) For impregnated windings First dip at 2h at 100 oC + 2h at 140 oC Second dip at 2h at 100 oC + 10-12h at 140 oC
- (b) For glass fiber covered/braided conductors 3-4 min at 275 – 350 oC (depending upon conductor size)

Varnish Properties

Drying in thin layer at 140 oC	100oC/2h	Min	60
Drying in thick layer	+120 o C/2h, +160 o C/2h	Top, Bottom, Inside	Smooth Non tracky Hard
Resoftening at 140 oC			No change in shape

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