harman bawa (p) ltd
Electrical Insulations Systems

BAWA VARNISH

BAWA B- TWO

BAWA B-TWO is an Alkyd Resin based baking impregnating Varnish of temp. Index 130

BAWA B-TWO is suitable for impregnation of fan stators. It has good flexibility, short curing schedule and good dielectric properties under humid conditions.

BAWA B-TWO can be applied by customary method of impregnation such as dipping or vacuum etc.

Physical Properties

Colour & Appearance	**Ruby red, clear liquid**
Solid content (1.5g/130^{0}C/2h)	**45 ± 2%**
Viscosity at 30^{0}C (By ford cup B4)	**40 – 60 Sec**
Density at 25^{0}C	**0.950 (Typical)**
Flash Point	**30^{0}C (Typical)**
Recommend Thinner	**Thinner BC**

Recommended Curing: 120-130^{0}C for 4h
(After the unit attains the specified temperature)
Short curing schedule may be used for small fan stators and stators cured in conveyorised plants.

Curing Schedule

Drying in thin film	**1h at 120^{0}C**	**Tack free**
Curing in considerable thickness 20g/120^{0}C/4h	**Top, Bottom, Inside**	**Smooth, Tack free, Soft rubber-like with few bubbles**

Typical Properties of Cured Varnish

Specimen Curing (4h at 120^0 C)	**TEST AS PER IS 10026-2 /IEC464-2**		
Flexibility (Mandrel Test)	**3 mm mandrel**		**Passes**
Dielectric strength	**At RT 24h water immersion at RT**	**kV/mm**	**90 - 60**
Volume resistivity (500 V D.C.)	**At RT, 168h water immersion at RT**	**Ohm.cm**	**10^{14} - 10^{13}**
Dielectric loss factor (30V/1 kHz)	**At RT, At 130^{0}C**		**0.015 - 0.120**
Bond strength (Twisted Coil)	**At RT, At 130^{0}C**	**N**	**100 - 20**

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