ROYALAC E-524 TS, oven drying, thermal class H-180°C

PRODUCT DESCRIPTION

ROYALAC E-524 TS impregnating varnish is processed on the basis of modified Epoxy resins. Drying is by means of polymerization, allowing for highly compact coils to be obtained, hard, highly adherent and elastic. They provide high resistance to refrigeration gases (FREON 22) and aggressive oils (PYRALENE). E 524 TS varnish is compatible with Class B enameled wire and Class F and H modified esterification. The product is UL E-104619 certified.

APPLICATION

For electrical engineering material which needs a strong binding force in Class H and hermetic motor units.

HOW TO USE

Preheat the coils to 40-50ºC. Impregnation through immersion until the air bubbles disappear. Very short drainage in relation to the mass of the piece treated. Drying 1 hour at 110ºC, followed by 4 hours at 160ºC. In the case of impregnation of Hermetic units 4 hours at 180ºC are necessary. Royalac E-524 TS varnish is successfully used for gluing magnetic sheet. A coat of varnish must be applied to one side (approx 5 microns), or both sides (approx. 3 microns each side) and dried at 100/120ºC. This operation will the pressed sheets glued under pressure and at a subsequently be assembled, with the pressed sheets glued under pressure and at a temperature of 180-200ºC.

PHYSICAL SPECIFICATIONS

Color ..... Golden.
Density at 20ºC (g/cm3)..... 0.980
Ford Cup Nº 4 at 20ºC (sec) ..... 90±15
Solids (%)..... 30±2
Flash point 57ºC
Storage stability at 20ºC ..... 6 months
Thermal class ..... H (180ºC)

DIELECTRIC PROPERTIES

Dielectric perforation on a copper plate with a film thickness of 0.01 mm:
NATURAL STATE ..... 1500 V
Dielectric loss factor at 20ºC ..... 0.3·10-2
Dielectric constant 2.72
Binding power at 20/100/150ºC ..... 18/4/1.5 DaN
DSC glass transition temperature 85ºC
Thermal index TWIST/HELICAL COIL ..... 195/198 ºC (UL)

PACKAGES

The product is available in 5L, 25L packaging. Available at customer's request in 50L, 100L and 200L packaging.