ROYAPOX 512, two component thermal class F - 155°C

PRODUCT DESCRIPTION

ROYAPOX 512 is an epoxy resin presented in two-component form. The components react slowly at room temperature or rapidly when heated. They form a solid and adherent mass with flexibility, conferring great cohesion to coil against centrifugal force and good heat conductivity. Good compatibility with Class F and H enameled wires. High resistance to refrigeration gases (FREON 22).

APPLICATION

ROYAPOX 512 resin with hardener 512 should be used with the mixing ratio of 100/23 by weight. Life time of the mixture at room temperature is approximately 1 hour.

HOW TO USE

The resin is supplied in two separate components: ROYAPOX 512 and ENDURECEDOR 512. The mixture weight ratio (resin / hardener) is 100/23. Containers should be stored at room temperature (15-25 ° C) for up to 1 year. The crystallized resin can be restored to the original form by heating to 80 ° C without affecting the quality.

Trickle impregnation process:

1. Mixing resin/hardener weight ratio 100/23
2. Preheat to 120ºC winding (oven or joule effect)
3. Apply by drip with rotation and tilt
4. Curing at 130ºC. for 5-6 minutes
5. If you want maximum performance mechanical and electrical make a post cure for 1 hour at 120°C.

CHARACTERISTICS	ROYAPOX 512	ENDURECEDOR 512	MIX 100/23
Viscosity at 25°C (mPa.s)	4000 ± 1000	30 ± 15	800 ± 200
Density at 20°C (g/cm3)	1,15 ± 0,02	0,895 ± 0,02	1,0 ± 0,02

Pot Life at 25ºC mixing (minutes) 60
Total polymerization ..... 2h at 120ºC
Shore D hardness ..... 75 ± 5
Tensile strength (MPa)..... 69
Flexion strength (Mpa)..... 120
Water absorption 24h 20ºC (%weight) 0.15
Dielectric strength, 50Hz 20ºC (KV/mm) 20
Surface resistance (Ohm) ..... 5×10^{12}
Specific resistance (Ohm.cm) ..... 1.3×10^{12}
Dissipation factor tg, 50Hz 20ºC 0.016
Inductive capacity, 50Hz 25ºC..... 3.8
Martens Heat deformation resistance 110
Thermal conductivity (W/mK) 0.15

PACKAGES

The product is available in 1kg, 5kg and 25kg packages.

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