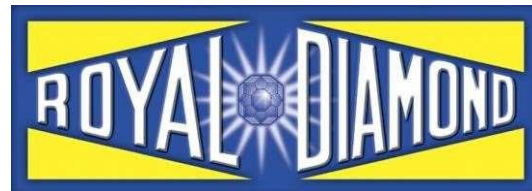


DIAPOL 790SL, one component thermal class H – 180°C



PRODUCT DESCRIPTION

DIAPOL 790 SL is an impregnation unsaturated polyester resin. This resin has been studied for the impregnation of static and dynamic materials in Thermal Class H (180°C). Diapol 790 SL has good adherence to polyimide film (kapton) and glass woven. The product is UL E465060 certified.

APPLICATION

Resin for impregnation of static and dynamic materials, where the H class is required. Due to its high thermal resistance, it could be used on any kind of electrical equipment exposed to high temperature conditions (tunnel, fans).

HOW TO USE

Containers should be stored at room temperature (15-25 ° C) for up to 6 months. When we store resin at lower temperatures of 8-10 ° C, shelf life increases up to 8 months. Diapol 790 SL can be processed on any kind of dipping, VPI, trickling or Roll-Dipping machines, in immersion and vacuum or vacuum pressure installations. The impregnation can be done with vacuum and pressure. If the pieces are preheated at 40-60°C, the resin must be at 20°C maximum. Standard cure process can be between 2-4 hours at 140°C. For getting better mechanical properties is recommended to cure 2 hours at 180°C. The resin has to be protected from contamination. A regular viscosity check is therefore necessary. Using the hot impregnating process the resin temperature should be maintained lower than 30°C and refreshed with new resin.

CHARACTERISTICS

| | |
|---|-----------------------|
| Chemical composition | Unsaturated polyester |
| Viscosity at 20°C, Ford cup nº 4 (s) | 120 ± 20 |
| Density at 20°C | 1.1 |
| Color | Yellowish |
| Gel time at 130°C | 7 min aprox |
| Bond strength at 23°C (N) | 70 |
| Bond strength at 180°C (N) | 10 |
| Dielectric strength, 50 Hz, 150°C (KV/mm) | 130 |
| Dielectric strength, 50 Hz, 180°C (KV/mm) | 110 |
| UL Homologation MW35-C (Twisted pair) | 180°C |

PACKAGES

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