

ROYAPOX 959, semi-rigid, self-extinguishing Temperature resistance -50°C + 130°C



PRODUCT DESCRIPTION

- ✓ Resin without solvent
- ✓ 100% polymerizing
- ✓ Low level of water absorption
- ✓ Hardening at room temperature
- ✓ No chemical aggression
- ✓ Low exothermic reaction
- ✓ High level of adhesion to metals and plastics
- ✓ Self-extinguishing 94 V-O (UL E180898 (N))

APPLICATION

Moulding resin with multiple electrical and electronic applications (e.g. transformers, capacitors, printed circuits, electromagnets, etc.), where fire-proofing protection is required.

HOW TO USE

ROYAPOX 959 resin is supplied in two separate and previously dosed components - white resin and ENDURECEDOR 5050 VM. The mixture weight ratio (resin / catalyst) is 100 / 13-15. Hermetic and sealed containers must be stored at room temperature (15-25°C), thus ensuring a shelf life of 1 year. Due to the fact that the mineral content over time settles on the bottom of the container, the resin must be well mixed before use. ROYAPOX 959 resin can be mixed with the hardener at room temperature at a dose of 100 / 13-15. However, to obtain a better finish, we recommend pre-heating the resin to approx. 50°C. It is recommended to use automatic mixing / dosing devices to operate this product. If you want to peel off the polymerized resin, we recommend using EURO-SILICON spray. In the case of closed parts, which must have maximum electrical characteristics, it is recommended that the forming takes place in a vacuum.

CHARACTERISTICS	ROYAPOX 959	END.5050 VM Blue	MIX 100/10
Viscosity at 25°C (mPa·s)	11000 ± 2000	700 ± 100	4000 ± 1000
Density at 20°C (g/cm³)	1,56 ± 0,04	0,95 ± 0,02	1,40 ± 0,02
Pot Life at 25°C (min)	120		
Complete polymerization	3 hours at 100°C		
Shore D hardness	75		
Tensile strength (Mpa).....	68		
Elongation (%)	6.5		
Water absorption 24 h. 20°C (% weight)	0.13		
Dielectric strength 50Hz, 20°C (kV/mm)	15		
Surface resistivity (Ohm)	3.10 ¹⁴		
Specific resistance (Ohm/cm)	3.10 ¹³		
Thermal conductivity (W/mK)	0.8-0.9		
SELF-EXTINGUISHABILITY ACCORDING TO THE UL-94 STANDARD			
U-L Vertical (5,7mm)	V-O File E 180898 (N)		

PACKAGES

The product is available in 1kg, 5kg and 25kg packages. Available on request in packages of 140kg, 300kg and 1000kg.