



resoltech
ADVANCED COMPOSITE TECHNOLOGY

RESOLTHAN ET 245 A/B

CASTING POLYURETHANE SYSTEM

DIELECTRIC & SELF EXTINGUISHING

RESOLTHAN ET 245 is a 2 part polyurethane system formulated for dielectric casting for electrical and electronic applications.

The system is self extinguishing to UL94 and available in a wide selection of colours. The system does not contain halogens and is non-magnetic. Excellent fire and heat behaviour. High heat conductivity.

MIXING RATIO

The resin part ET245A should be stirred prior to mixing.

- MIXING BY WEIGHT 100 to 16
- MIXING BY VOLUME 100 to 20

Mixing can be performed manually or with a metering and mixing device. Low pressure mixers are suitable. It is possible to preheat the two ingredients at 30°C to 60°C. RESOLTHAN ET 245 can be mixed in plastic or aluminium containers.

COLOURING/PIGMENTATION

It is possible to add pigments or colouring agents to this system.

APPLICATION

RESOLTHAN ET 245 can be used for casting and dielectric insulating applications.

The moulds or parts should be heated up if necessary.

For more information, please refer to the applications technical bulletins (TechNotes), available on request.

CURING

Workshop conditions: 18 to 25°C, 70% humidity maximum.

Gel time @ 25°C for 300g 60mn (standard) (other hardeners available)

The above properties will be affected by parameters such as film thickness, shape and temperature.

MECHANICAL PROPERTIES

Aspect	Hard, various colours available
Density at 25°C	1.54 (+/-0.03)
Shore hardness A/D	97 A/45 D
Shrinkage	<0.8%
Temperature range	- 50°C to 130°C
Elongation	250 to 300 %

PHYSICAL PROPERTIES

Resin aspect:	Visquous liquid
Hardener aspect:	Brown liquid
Resin viscosity	6,800 mPas (+/-1000)
Hardener viscosity	110 mPas (+/-40)
Resin density:	1.54 (+/-0.03)
Hardener density:	1.21 (+/-0.03)
TG:	10°C
Thermal conductivity:	0.60W/m.K
Dielectric coefficient:	21 kV/mm
Dielectric constant value:	4.20 (@25°C for 100kHz)
Delta value:	0.02 (@25°C for 100kHz)
Resistance to liquids:	Good for water and acids, average for bases
Self extinguishing ref:	UL 94 V0 (6mm, any colour) (#E229629)

PACKING & STORAGE

RESOLTHAN ET245 is available as follow:

- 1l + 0.16l
- 5l + 0.8l
- 25l + 4l
- 200l + 32l

Shelf life is twelve months in sealed containers as provided. Keep containers sealed and away from heat and cold (between +5°C and +40°C).

HEALTH AND SAFETY

It is advised to follow basic rules such as avoiding skin contact, wear masks when producing dust. Please read our standard health and safety sheet for more information.
In case of eye contamination, wash with water and seek medical advice.

More information is available on www.resoltech.com.

The data provided in this document is the result of tests and is believed to be accurate. We do not accept any responsibility over the mishandling of these products and our liability is limited strictly to the value of the products we manufacture and supply.

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