



resoltech
ADVANCED COMPOSITE TECHNOLOGY

1060 ES7

INJECTION & CASTING EPOXY SYSTEM FOR ELECTRICAL INSULATION

RESOLTECH 1060 ES7 is an epoxy system formulated to insulate electric and electronic connections.

The system provides excellent insulating properties and ease of use. It is non-flammable, does not shrink, cures without any evaporation, does not degrade electronic components and cures in an enclosed volume.

RESOLTECH 1060 ES7 is also available in a slower, non exothermic version called 1060E7.

MIXING RATIO

The mixing ratio is constant whatever the hardener selected.

By weight: 100 + 44.

By volume: 2 + 1.

Hardener available: 1063 ES7.

WARNING: The mixing ratio must be accurately followed. It is not possible to change the ratio, it would result in lower mechanical properties. The mixture should be thoroughly stirred to ensure full homogeneity.

It is important to note that epoxy systems tend to heat up much faster in a pot than as a thin film. It is therefore necessary to only mix the necessary amount usable within the given pot life. Keeping the mixture in flat open containers reduces the risks of exothermic reaction.

APPLICATION

The standard procedure of working with epoxy systems applies to the RESOLTECH 1060 ES7. The system can be applied by casting or injection.

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

CURING

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

Pot life 30mn (for 500g @ 25°C)

MECHANICAL/ELECTRICAL PROPERTIES

Hardness Shore D 0-10s	76-71
Tensile strength	7,100 psi
Izod impact	0.75 ft lbs/in
Volume resistivity	$3.1 \times 10_{15} \Omega \cdot \text{cm}$
Dielectric strength	25.47 Megavolt/M
Dielectric constant 100Hz	4.8

PHYSICAL PROPERTIES

Resin aspect	Blue liquid
Hardener aspect	Clear, slightly yellow liquid
Mixture aspect	Blue or green liquid
Resin viscosity	3,500 mPas
Hardener viscosity	380 mPas
Viscosity of mixture	500mPas
Density of mixture	1.05
Exothermic peak	110°C

PACKING & STORAGE

RESOLTECH 1060 ES7 is available as follow:

0.72kg, 1.40kg, 6.50kg, 32kg, 640kg.

Shelf life is one year in sealed containers as provided. Keep containers sealed and away from heat and cold.

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.

RESOLTECH SARL
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