



ELI-CAST FR 707F

ELECTRO INSULATING RESIN - RE-ENTERABLE

PRODUCT	A two component, ambient temperature curing, re-enterable electro insulating resin
DESCRIPTION	A two pack Polyurethane Resin
COLOUR	Translucent (transparent in thin sections)
VISCOSITY / 25°C	Free flowing liquid Resin : 800 - 900 mPa.s Hardener : 200 - 250 mPa.s Mixed : 650 - 700 mPa.s
MIXING RATIO (by weight)	100 parts of Resin 50 parts of Hardener
(by volume)	100 parts of Resin 50 parts of Hardener
RECOMMENDED MIXING TIME / 25°C	3 Minutes
GELTIME / 25°C	15 - 20 Minutes
SETTING TIME / 25°C	25 - 30 Minutes
HARDNESS AFTER 24 HRS / 25°C	Shore A 40 - 45
EXOTHERM / 25°C (5 kg casting)	Maximum 50°C
SPECIFIC GRAVITY / 25°C	Resin : 1,03g - 1,05g/cm ³ Hardener : 1,21g/cm ³ Mixed Resin : 1,1g - 1,15g/cm ³
FLASHPOINT	Resin : 175°C Hardener : 200°C

ADHESION TO CLEANED AND
ROUGHENED PVC, ALUMINIUM, LEAD Good

POLYETHYLENE
(Flame treated) Good - Satisfactory

TENSILE STRENGTH Low - material yields
TEAR STRENGTH Low - material yields

WATER ABSORPTION After immersion in distilled water -
CASTING CURED 48h / 25°C 7 days 0,5 - 0,9%
 14 days 1 - 1,5%

HYDROLYTIC STABILITY Stable

RESISTANCE To solvents - Poor

 Oil / Grease - Satisfactory / Poor (Tests are recommended)

 Water, diluted Acids / Alkaline - Good

TYPICAL ELECTRICAL PROPERTIES Volume Resistivity / 25°C : ohm-cm $4,5 \times 10^{15}$
 Surface Resistivity / 25°C : ohm-cm 2×10^{16}
 Dielectric Strength / 25°C : 19 KV/mm
 Dielectric Constant / 25°C : 3.05

TYPICAL APPLICATIONS The easy removability and permanent flexibility of the FR 707/F Resin makes the product particularly suitable for potting and encapsulating applications of electrical and electronic components where repeated access of the encapsulated components is of importance.

TOXICITY Very low toxicity at ambient temperatures. However, gloves should be worn and adequate ventilation must be ensured during application.

STORAGE STABILITY Resin and Hardener must be stored under dry and cool conditions. Once the Resin or Hardener container has been opened the total contents must be used to avoid moisture contamination.

NOTICE The technical specification and/or our technical advice whether verbal, in writing or by trials is given in good faith and based on our test results obtained but without warranty. It does not release the user from the obligation to test the products supplied by us or any third party as to the suitability for the intended use.
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