



GELTEK FR1512 ELECTRO INSULATING RESIN (Isocyanate Free)

PRODUCT:	A soft / flexible, re-enterable, two component, ambient temperature curing electro insulating resin / gel used in encapsulation / potting of cable joint kits, junction boxes, power supplies, and many other electronic or electrical components.
COLOUR:	Transparent – various colours available on request
VISCOSITY / 25°C:	Mixed Resin: 2 700 – 2800 mPa.s
SPECIFIC GRAVITY / 25°C:	Mixed Resin: 0.87 – 0.92 g/cm ³
MIXING RATIO:	By Weight or Volume: 100 parts Resin 100 parts Hardener
RECOMMENDED MIXING TIME / 25°C:	3 Minutes
POTLIFE / 25°C: (500g mix)	5 – 10 Minutes
GELTIME / 25°C: (500g mix)	35 – 40 Minutes
SETTING TIME / 25°C: (500g mix)	45 – 50 Minutes
EXOTHERM / 25°C: (500g cast)	Max 30°C
HARDNESS: cure 24 hours at 25°C: cure 4 weeks at 25°C:	Shore A: 4 Shore A: 11
FLASH POINT:	Resin: 175°C Hardener: 200°C

MECHANICAL PROPERTIES:

TENSILE STRENGTH: (Din 53455)	Low (0.1 - 0.15 N/mm ²)
ELONGATION AT BREAK (Din 53455)	75 – 85 %
Re-enterability	7 – 9 kg

ELECTRICAL PROPERTIES:

VOLUME RESISTIVITY / 25°C: (Din 53482)	2 x 10 ¹⁴ Ohm/cm
DIELECTRIC STRENGTH / 25°C: (Din 53481)	9 KV/mm
DIELECTRIC CONSTANT / 25°C / 50Hz: (Din 53483)	2.6 – 3

CHEMICAL PROPERTIES:

WATER ABSORPTION
(7 days immersion in distilled water) 0.1 % max

HYDROLYTIC STABILITY: Stable

RESISTANCE:
To Solvents (Aliphatic) Satisfactory
(Aromatic) Poor
(individual tests are recommended)

To Oil / Grease: Satisfactory
(individual tests are recommended)

To Water, diluted Acids, Alkaline: Good – excellent

TYPICAL APPLICATIONS: The easy removeability and permanent flexibility of the Geltek FR/1512 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 plus 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 application.

The application, use and processing of the products are beyond our control and Eli-Chem Ltd's legal obligation in respect of any sale of its products shall be determined by the terms of its conditions of sale.

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JF/rb