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/cm³

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: Shore A: 4
cure 4 weeks at 25°C: Shore A: 11

FLASH POINT:
Resin: 175°C
Hardener: 200°C

MECANICAL PROPERTIES:

TENSILE STRENGTH: (Din 53455) Low (0.1 - 0.15 N/mm²)

ELONGATION AT BREAK (Din 53455) 75 – 85 %
Re-enterability 7 – 9 kg

ELECTRICAL PROPERTIES:

VOLUME RESISTIVITY / 25°C: (Din 53482) \(2 \times 10^{14}\) 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
capsulating 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.

February 2011
JF/rb