

ELI-CAST FR/453 ELECTRICAL INSULATING RESIN

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| PRODUCT: | Eli-Cast FR/453 is a filler extended two-part Polyurethane Resin | |
| COLOUR: | Resin: | Electro Brown |
| | Hardener: | Brownish clear |
| | Mixed: | Electro Brown |
| VISCOSITY / 25°C: | Resin: | 6 000 – 7 000 mPa.s |
| | Hardener: | 200 – 240 mPa.s |
| | Mixed: | 2 500 – 3 000 mPa.s |
| APPLICATION: | By casting | |
| MIXING RATIO: | <u>By Weight</u> | <u>By Volume</u> |
| | 100 parts of Resin | 100 parts of Resin |
| | 25 – 26 parts of Hardener | 34 – 35 parts of Hardener |
| SPECIFIC GRAVITY: | Resin: | 1.65 g/cm ³ |
| | Hardener: | 1.20 g/cm ³ |
| POTLIFE / 25°C: | 30 Minutes | |
| GELTIME / 25°C: | 35 – 40 Minutes | |
| SETTING TIME / 25°C: | 1 – 1¼ Hours | |
| EXOTHERM: (500ml volume) | Maximum 60°C | |
| ADHESION: | To PVC, Aluminium, Lead, Copper: | Very good |
| | To Cleaned, Flamed Polyethylene: | Good |
| FLASHPOINT: | > 200°C | |
| HEAT RESISTANCE: | Maximum 80°C | |
| THERMAL ENDURANCE TO HEAT: (EN/IEC 60079-0: 2004) | Passed 4 Weeks / 80°C / 90% RH | |
| THERMAL ENDURANCE TO COLD: (EN/IEC 60079-0: 2004) | Passed 24 Hours / -25°C | |
| HARDNESS: (Cured 24h / 25°C) | Shore D: 80 – 85 | |
| DIELECTRIC STRENGTH: (Method 210C) | 21 kV/mm | |
| VOLUME RESISTIVITY: | 10 x 10 ¹² Ohm/cm | |

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| RESISTANCE: | To Water, Oil, diluted Acids, Alkaline: | Very good |
| | Solvents: Aromatic / Aliphatic Hydrocarbons: | Good |
| | Esters, Ketones, Chlorinated Hydrocarbons: (Individual tests are recommended) | Not resistant |
| HYDROLYTIC STABILITY: | Excellent | |
| WATER ABSORPTION: | (After 24 hour immersion in distilled water): | 0.3 % |
| STORAGE STABILITY: | 12 Months stored under dry and cool conditions in sealed packaging | |
| TOXICITY: | Very low toxicity at ambient temperatures. However, gloves must be worn and adequate ventilation must be ensured during application. | |
| 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 Elite Chemical Industries 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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