

# RT154

## Thermally Resistant Epoxy Adhesive

### Description

RT154 provides outstanding thermal resistance and low shrinkage in fibre optic applications.

### Benefits

- Will withstand high temperature steam autoclaving and operate for short periods at 350°C
- High surface energy and very low viscosity. Readily wets and wicks between optical fibres
- Excellent adhesion to glass fibres as well as metals, ceramics and many plastics
- Outstanding impact and thermal shock resistance
- Low shrinkage on cure, reducing internal stresses in multiple fibre assemblies
- Excellent sealing with very high moisture and chemical resistance, and low outgassing
- Very long work life after mixing
- Available in 4g TwinPack sachets, and 500g bulk packs

### Typical Properties

#### Curing

Mix ratio:	85 parts hardener to 100 parts resin
Mixed viscosity:	0.5 – 1.0 Pa.s (500 – 1000 cPs)
Work life:	12 hours @ 23°C (4g in syringe)
Surface Tension:	40 - 44 mN/m
Curing Schedule:	120°C for 30 minutes 150°C for 5 minutes

#### Optimum Properties (cured for 5 minutes @ 150°C)

Glass Transition:	>140°C
Density:	1.20
Hardness:	92 D
Modulus:	2 Gpa
Operating Temperature:	- 60 to 250°C
Shrinkage on Cure	< 3.5%
Thermal Expansion	55 x 10 <sup>-6</sup> cm/cm/°C
Lap Shear – Al/Al	11 MPa

### Related Products

- RT154TH (Thixotropic version of standard RT154)
- The fibre optic adhesive range, including RT153FC high temperature adhesive

Typical properties where stated are to be considered as representative of the current production and should not be treated as specifications. While the information presented is believed to be true and reliable, users are advised to conduct sufficient investigations to ensure the suitability of any product for its intended use. IS-Rayfast Ltd cannot accept any responsibility for loss or damage that may result from the use of this information.

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