

# 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 Resintech fibre optic adhesive range, including RT153FC high temperature adhesive

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