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## TECHNICAL DATA SHEET

### RT154TH Thixotropic Thermally Resistant Epoxy Adhesive

#### Description

RT154TH 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
- Can be gelled prior to full cure
- Low shrinkage on cure, reducing internal stresses in multiple fibre assemblies
- Excellent sealing material with very high moisture and chemical resistance, and low outgassing
- Very long work life after mixing
- Supplied in DuoSyringe for easy application
- Standard size is 50ml, with associated mixing nozzles and dispenser guns

#### Typical Properties

Mix ratio:	100 parts hardener to 100 parts resin
Mixed viscosity:	15 Pa.s (15000 cPs)
Work life:	12 hours @ 23°C (4g in syringe)
Curing Schedule:	Gel @ 80°C for 2 hours (optional) 135°C for 30 minutes 150°C for 15 minutes

#### Optimum Properties - cured for 15mins @ 150°C

Glass Transition:	>150°C
Density:	1.25
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

#### Related Products

- RT153 high temperature epoxy adhesive
- RT155 fast room temperature curing epoxy adhesive
- RT156 medium temperature curing epoxy adhesive
- RT157 optically clear fast curing epoxy adhesive

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