Resintech Limited
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Technical Data

# 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
- 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 with very high moisture and chemical resistance, and low out gassing
- 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

| | |
|---|---|
| Mixed viscosity at 23°C: | 20.0 - 23.0 Pa-s |
| Work life: | 12 hours at 23°C (4g in syringe) |
| Curing schedule: | Gel at 80°C for 2 hours (optional)<br>135°C for 30 minutes<br>150°C for 15 minutes |

### Optimum Properties *(cured for 15 minutes at 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 $10^{-6}$ cm/cm/°C |
| Lap Shear –Al/Al: | 11 MPa |

### Related Products

- RT154THX25 (High viscosity version of RT154TH)
- RT154 (Unfilled, low viscosity version of RT154TH)
- The Resintech fibre optic adhesive range, including RT153F high temperature adhesive