

Technical Data

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 out gassing
- Very long work life after mixing
- Available in 4g Twinpack sachets, and 500g bulk packs

Typical Properties

Mix ratio by weight:	1 part hardener to 1.17 parts resin
Mixed viscosity at 23°C:	0.5 – 2.0 Pa-s
Work life:	12 hours at 23°C (4g in syringe)
Surface tension:	40 – 44 mN/m
Curing schedule:	120°C for 30 minutes 150°C for 30 minutes

Optimum Properties (*cured for 5 minutes at 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 ⁻⁶ cm/cm/°C
Lap Shear -Al/Al:	11 MPa

Related Products

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

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