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Technical Data Sheet

RT153F

High Temperature Epoxy Adhesive

Description

RT153F is the industry standard adhesive for "pot and polish" fibre optic connections.

Benefits

- Glass transition temperature C.100°C, giving good temperature performance
- High surface energy and 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
- Colour change on cure from straw through amber to red
- Excellent moisture and chemical resistance
- Available in 4g TwinPack sachets, and bulk packs

Typical Properties

Mix Ratio by Weight:	8 parts A (Resin) to 1 part B (Curing agent)
*Mixed Viscosity at 23°C:	0.5 – 3.0 Pa-s
Density:	1.15
Surface Tension:	42 - 44 mN/m
Operating Temperature:	-60°C to 200°C
Glass Transition:	C. 100°C
Peak Exotherm at 23°C:	No significant Exotherm (<100g)

Curing

*Work Life at 23°C (4g):	3½ - 4 hours (4g in syringe)
Cure Time at 80°C (4g):	45 minutes
Cure Time at 100°C (4g):	6 minutes
Cure Time at 120°C (4g):	2 minutes

Typical Properties *(cured for 2 minutes at 120°C measurements taken at ambient temperature)*

*Shore Hardness:	>85 D
Refractive Index:	1.55
Modulus:	1 Gpa
*Lap Shear (300mm2 Al / Al):	6 kN / 20 MPa / 2900 Psi (minimum)
Lap Shear (300mm2 Al / Al):	>6.5 kN / 21.64 MPa / 3138 Psi (typical)

Colour

Dependent on cure

Storage and Shelf Life

Store under normal conditions of 15°C to 30°C in the original, unopened packaging, out of direct sunlight. Use within one year from the date of manufacture.

Related Products

- The Resintech fibre optic adhesive range

Resintech Limited warrants that the typical properties where stated are to be considered as representative of the named product and should not be treated as specifications. * denotes test on batch acceptance basis. While the information presented is believed to be true and reliable different batches, conditions and applications yield differing results. As a result, the customer is solely responsible for evaluating the product and determining its suitability for their intended use. Resintech Limited cannot accept any responsibility for loss or damage that may result from improper application.