Resintech Limited
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Technical Data Sheet

RT157

Optical Clear Fast Curing Epoxy Adhesive

Description

RT157 is excellent for bonding and potting optical components, where clarity is important.

Benefits

- Sets in minutes at room temperature
- Reaches handling strength in 30 minutes
- Optically clear
- High surface energy. Readily wets and wicks between fibres
- Good adhesion to glass fibres as well as metals, ceramics and many plastics
- Good impact and thermal shock resistance
- Excellent for bonding and potting optical components such as prisms, LED's and fibres
- Supplied in DuoSyringe for easy application
- Standard size is 50g, with associated mixing nozzles and dispenser guns

Typical Properties

Operating Temperature:	-60 to 125°C
Density:	1.2
Peak Exotherm at 23°C (4g):	63°C (more details on page 2)

Curing

Work Life at 23°C (4g):	3 - 5 minutes
*Cure Time at 23°C (4g):	2 hours
*Cure Time at 65°C (4g):	10 minutes

Typical properties (*Cured for 24 hours at ambient temperature measurements taken at ambient temperature*)

Thermal Expansion:	55 x 10^{-6} cm/cm/°C
Shrinkage on Cure	3%
Refractive Index	1.54
Lap Shear (300mm2 Al / Al):	3 KN / 10 MPa / 1450 Psi (minimum)
Lap Shear (300mm2 Al / Al):	>3.5 KN / >11.65 MPa / >1689 Psi (typical)
Hardness:	>60 D (>70 D after 7 days)

Colour

Clear

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, including RT153F high temperature adhesive

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.

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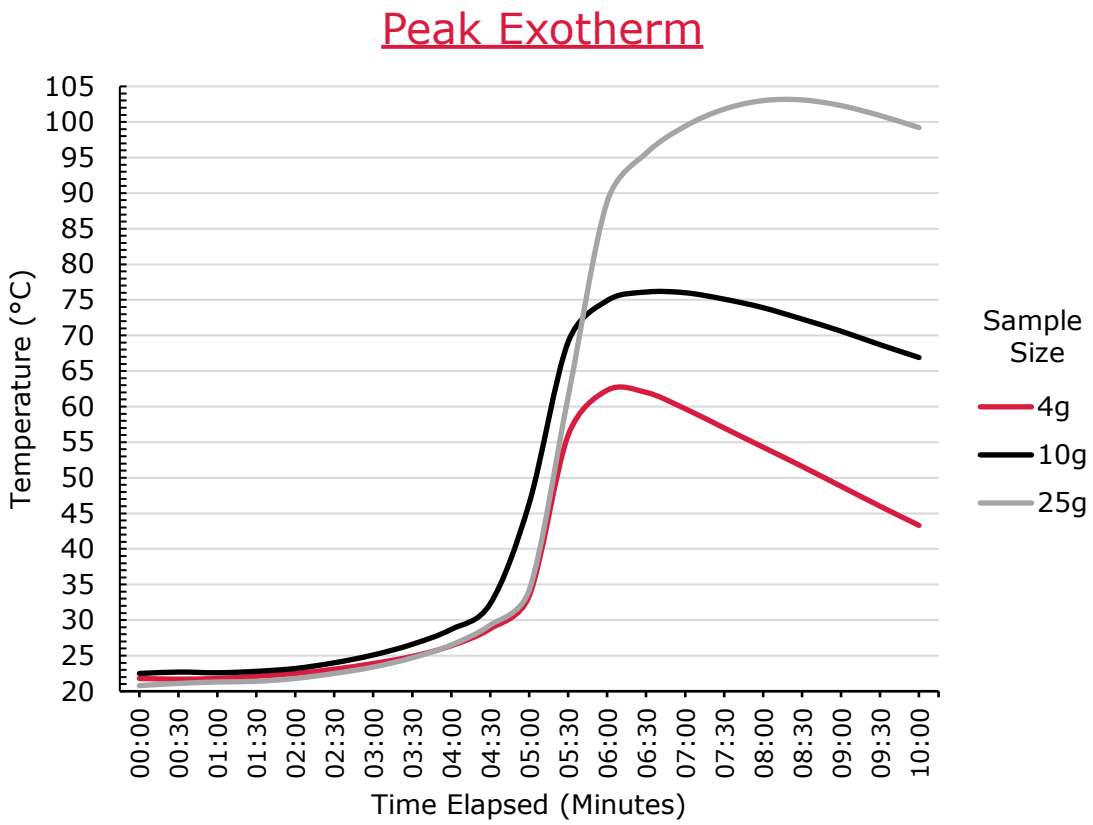

Samples dispensed from a 50ml syringe using a DH001 manual applicator and mixed with a DN012 nozzle. Samples at ambient temperature before mixing.

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