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Technical Data Sheet

RT151

Low Viscosity Clear Epoxy Resin System

Description

RT151 is an optically clear, very low viscosity epoxy resin system.

Benefits

- Water white and optically clear
- Has a 1 hour working life after mixing
- High surface energy and readily wets and wicks between surfaces
- Low viscosity - reduces air entrapment
- Good impact and thermal shock resistance
- Available in easy-to-use TwinPacks or bulk

Typical Properties

Mix Ratio by Weight:	4 parts A (Resin) to 1 part B (Curing agent)
*Mixed Viscosity at 23°C:	0.1 - 0.3 Pa-s
Density:	1.1
Operating Temperature:	-60°C to 200°C
Peak Exotherm at 23°C:	66°C (25g, more details on page 2)

Curing

Work Life at 23°C (10g):	>3 hours
Cure Time at 23°C (10g):	16 hours•
Cure Time at 65°C (10g):	1 hour

•When curing <25g at 23°C ensure to control the atmosphere as excess humidity can cause amine blush.

Typical properties *(cured for 1 hour at 65°C measurements taken at ambient temperature)*

*Shore Hardness:	>80 D
Optical Transmission:	>97%

Colour

Clear

Safety Considerations

- 50g maximum recommended cure quantity
- Do not cure more than 100g at a time as peak exotherm will reach >210°C

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

- RT152 low viscosity epoxy resin system
- The Resintech potting and 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.

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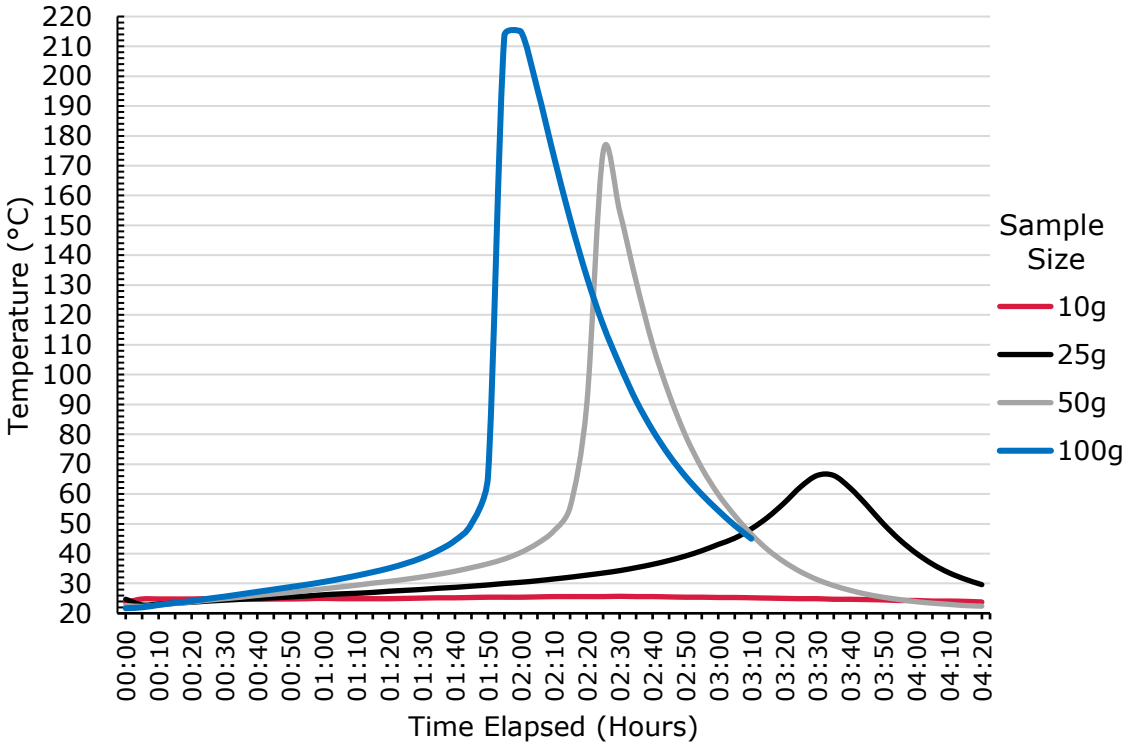
Peak Exotherm



Samples hand mixed in a HDPE beaker for 30 seconds before the exotherm test is started.
All samples at ambient temperature before testing.

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