

Data sheet: vacuum casting resin 8095

Description Simulates AB				
Features			Good temperature resistanc	
Suitable for		Lenses, enclosure		
Cured properties			Test / ISO standard where applicabl	
Colour		Colourless		
Transparency		Transparent		
Shore hardness	At 23 °C At 60 °C At 80 °C	75 D Not measured Not measured	86	
Flexural strength		108 N/mm ²	17	
Flexural modulus		2460 N/mm ²	17	
Tensile strength		64 N/mm ²	R 52	
Tensile modulus		2250 N/mm ²	R 52	
Izod impact		11 kJ/m ²	18	
Yield strength		Not measured	R 52	
Elongation yield		Not measured		
Elongation at break		17 %	R 5	
Tear strength		Not measured		
Thermal conductivity		0.2 W/mK	BS 8	
Heat deflection temperature (test piece 110 mm × 12.7 mm × 6.4 mm)		77 °C		
Glass transition temperature		88 °C		
Processing information			Note	
Viscosity	Part A Part B	700 cPs 140 cPs	At 25 °	
Specific gravity	Part A Part B	1.05 1.2	At 25 °	
Mix ratio A:B		100:150	By weig	
Mixing time		45 s to 60 s		
Resin temperature		40 °C	Heating chamb	
Mould temperature		70 °C	Heating chamb	
Curing temperature		70 °C	Heating chamb	
Curing time in mould		45 min		
Pot life		360 s	100 g at 25 °	
Post curing process		None		
Typical shrinkage		0.2 %		

The information in this data sheet is provided for general guidance only and must not be relied upon as a definitive statement of the product's properties or suitability. Renishaw will not be liable for the consequences of any decision by you to use the product and you must conduct your own testing to determine whether or not the product is suitable for your needs.

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Handling procedure

Casting procedure

- Shake unopened A and B component cans vigorously for 10 s to 15 s
- Pre-heat mould in oven at 70 °C
- Pre-heat unopened A and B component cans in oven at 70 °C for 2 hours, then place in oven at 40 °C to stabilise prior to use
- Weigh A and B components into separate cups, allowing for cup loss (the amount of resin left in cup A after tipping)
- Add colour pigment to cup A
- Place filled cups in the machine and attach mixing paddle to cup B
- · Start vacuum pump
- · Switch on mixer motor
- Wait 10 minutes after reaching maximum vacuum level before mixing
- Pour contents of cup A into cup B and mix as fast as possible without splashing
- Pour mixed resin into silicone mould and leak vacuum chamber before the end of the pot life
- · Place filled mould in oven to cure resin
- For full instructions on casting procedures refer to Vacuum Casting Technique: a guide for new users, available at www.renishaw.com

Special notes

- · Exact mould temperature is important
- · Exact resin temperature is important
- Use no more than 2 % of total weight colour pigment

Product information

Mould life

Mould life can be increased by using the correct Renishaw release agent and demoulding the casting immediately after curing.

- Storage
 Store unopened cans at > 20 °C
 Protect against frost
 Store opened cans in oven at 40 °C with caps on
- In case of crystallisation of B-component Place cans in oven at 70 °C for 2 hours then transfer to 40 °C oven to stabilise prior to use.

Both components are sensitive to humidity.



Please follow the correct procedure for use in your vacuum casting system, as set out in its operating instructions.



Always follow the instructions in the Product Safety Data Sheets and always work in accordance with the safety instructions of the materials manufacturer. Safety Data Sheets can be found at www.renishaw.com.



Wear suitable respiratory protection, safety gloves and safety goggles during the entire filling procedure in accordance with the Product Safety Data Sheets.



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Issued 0915 Part no. H-5800-0072-04-A