

Data sheet: vacuum casting resin 8060-1

Description Simulates PP/PE											
Features Resistant to high temperatures											
Suitable for Automotive, under bonnet/hood											
Cured properties						Test / IS	O stanc	lard wh	ere appl	icable	
Colour			S	lightly y	ellow						
Transparency				Translu	ıcent						
Shore hardness	At (23 °C 60 °C 30 °C		ot meas						868	
Flexural strength				60 N/	mm²					178	
Flexural modulus				1310 N	mm²					178	
Tensile strength				47 N/	mm²					R 527	
Tensile modulus				1225 N	mm²	R 527					
Izod impact				14 k	J/m²		180				
Yield strength Not measured				ured	R 527						
Elongation yield			N	ot meas	ured						
Elongation at break 43 %				43 %	R 527						
Tear strength Not measured					ured	34					
Thermal conductivity	Thermal conductivity Not measured					BS 874					
Heat deflection temperatu	ture 105 °C to 175 °C*				5 °C*	(test piece 110 mm × 12.7 mm × 6.4 mm)					
Glass transition temperature 127 °C				°C to 19	5 °C						
Processing information							Notes				
Viscosity		Part A Part B			cPs cPs	At 25 °C			t 25 °C		
Specific gravity		Part A Part B			1.03 1.21				At	t 25 °C	
Mix ratio A:B	100:400				:400	By weight					
Mixing time		30 s to 45 s									
Resin temperature		40 °C				Heating chamber					
Mould temperature		70 °C					Heating chamber				
Curing temperature	65 °C to 70 °C					Heating chamber					
Curing time in mould		60 min									
Pot life		285 s					100 g at 25 °C				
Primary degassing				30) min						
Post curing process	*60 min at gives heat deflection temp. of	100°C 120°C	110℃ 125℃	120℃ 135℃	130°C 140°C		150°C 160°C	160°C 165°C	170℃ 170℃	180°C 175°C	
Typical shrinkage		0.5 %									

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.

www.renishaw.com/additive



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 to 15 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

Exotherm

This product generates a high exotherm heat.

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.

Both components are sensitive to humidity.

 In case of crystallisation of B-component Place B-component cans in oven at 70 °C for 2 hours to 4 hours and stir resin afterwards.



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.

