



## TECHNICAL DATA SHEET

ENGLISH

### RS 195-978 Polyurethane Resin

RS 195-978 is a two-part, clear amber, flexible encapsulation resin which can be easily removed from broken or defective units. In most cases the clarity of the material allows the defect to be spotted without stripping the whole unit and the repair can then be localised.

- Very low hardness; can be cut or 'dug out' for easy removal
- Excellent low temperature performance; remains flexible to -60°C
- Very low water absorption; ideal for high humidity environments
- Ideal for protecting delicate components from mechanical and thermal shock

**Approvals**                      **RoHS-2 Compliant (2011/65/EU):**                      **Yes**

#### Typical Properties

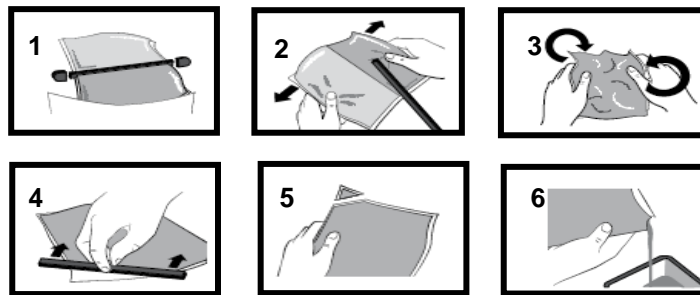
Liquid Properties:	Density Part A - Resin (g/ml)	0.93
	Density Part B - Hardener (g/ml)	1.24
	Part A Viscosity (mPa s @ 23°C)	1200
	Part B Viscosity (mPa s @ 23°C)	60
	Mixed System Viscosity (mPa s @ 23°C)	980
	Mix Ratio (Weight)	14.05:1
	Mix Ratio (Volume)	18.58:1
	Usable Life (20°C)*	20 mins
	Gel Time (23°C)*	40 mins
	Cure Time (23 °C)	24 hours
	Cure Time (60 °C)	4 hours
	Storage Conditions	Dry Conditions: Above 15°C, Below 35°C
	Cured System:	Thermal Conductivity (W/m.K)
Cured Density (g/ml)		0.95
Temperature Range (°C)		-60 to +100
Dielectric Strength (kV/mm)		18
Volume Resistivity (ohm-cm)		10 <sup>14</sup>
Shore Hardness		A12
Colour (Mixed System)		Clear
Flame Retardancy		No
Loss Tangent @ 50 Hz		0.02
Permittivity @ 50 Hz	3.50	

\*Usable Life and Gel Times extend slowly on storage.



**Mixing Procedures**  
**Resin Packs**

When in Resin pack form, the resin and hardener are mixed by removing the clip and moving the contents around inside the pack until thoroughly mixed. To remove the clip, remove both end caps, grip each end of the pack and pull apart gently. By using the removed clip, take special care to push unmixed material from the corners of the pack. Mixing normally takes from two to four minutes depending on the skill of the operator and the size of the pack. Both the resin and hardener are evacuated prior to packing so the system is ready for use immediately after mixing. The corner may be cut from the pack so that it may be used as a simple dispenser.



**Additional Information**

- Curing:** Do not heat cure large volumes immediately. Allow these to gel at room temperature and post-cure at high temperature if required (refer to liquid properties for details). Small volumes (250ml) may be heat cured immediately.
- Storage:** When storing under very cold conditions, the hardener may crystallise. If this occurs, simply warm (40°C) the container gently until all crystals have re-melted.
- Health & Safety:** Always refer to the Health & Safety data sheet before use.