



TECHNICAL DATA SHEET

ENGLISH

RS 199-1395 Polyurethane Resin

RS 199-1395 has been formulated to give a semi rigid low viscosity resin for use in potting or cable jointing applications.

- Excellent electrical insulation properties
- Excellent water resistance
- Suitable for use on delicate components even after thermal cycling

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

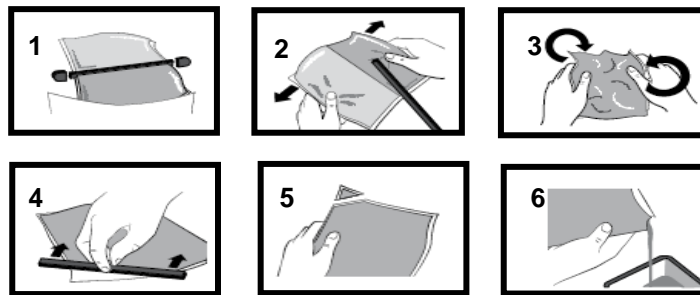
Typical Properties:

Liquid Properties:	Density Part A - Resin (g/ml)	1.46
	Density Part B - Hardener (g/ml)	1.24
	Part A Viscosity (mPa s @ 23°C)	8000
	Part B Viscosity (mPa s @ 23°C)	50
	Mixed System Viscosity (mPa s @ 23°C)	3000
	Mix Ratio (Weight)	6.47:1
	Mix Ratio (Volume)	5.48:1
	Usable Life (20°C)	20 mins
	Gel Time (23°C)	45 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)		1.42
Temperature Range (°C)		-40 to +110
Dielectric Strength (kV/mm)		12
Volume Resistivity (ohm-cm)		10 ¹²
Shore Hardness		A75
Colour (Mixed System)		Grey
Loss Tangent @ 50 Hz		0.04
Permittivity @ 50 Hz		4.00
Water Absorption 10 days @ 20°C / 1 hour @ 100°C		< 0.5% / < 1%



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.