TECHNICAL DATA SHEET

ENGLISH

RS 195-984
Polyurethane Resin

RS 195-984 is a two-part, semi-rigid optically clear polyurethane resin ideal for use in decorative and protective applications. Due to a carefully selected blend of components an extremely durable, low viscosity system is achieved which can be used for a wide variety of applications.

- Water white transparency; ideal for LED applications
- Excellent resistance to yellowing; good resistance to UV light
- Suitable for a range of environments

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

Typical Properties

Liquid Properties:	Density Part A - Resin (g/ml)	1.01
	Density Part B - Hardener (g/ml)	1.06
	Part A Viscosity (mPa s @ 23ºC)	700
	Part B Viscosity (mPa s @ 23ºC)	50
	Mixed System Viscosity (mPa s @ 23ºC)	300
	Mix Ratio (Weight)	2.24:1
	Mix Ratio (Volume)	2.34:1
	Usable Life (20°C)	17 mins
	Gel Time (23°C)	22 mins
	Cure Time (23 °C)	24 hours
	Cure Time (60 °C)	4 hours
	Storage Conditions	Dry Conditions: Above 15ºC, Below 35ºC
Cured System:	Thermal Conductivity (W/m.K)	0.20
	Cured Density (g/ml)	1.02
	Temperature Range (°C)	-40 to +120
	Dielectric Strength (kV/mm)	11
	Volume Resistivity (ohm-cm)	10^{14}
	Shore Hardness	A95 / D46
	Colour (Mixed System)	Water White
	Flame Retardancy	No
	Loss Tangent @ 50 Hz	0.025
	Permittivity @ 50 Hz	3.50

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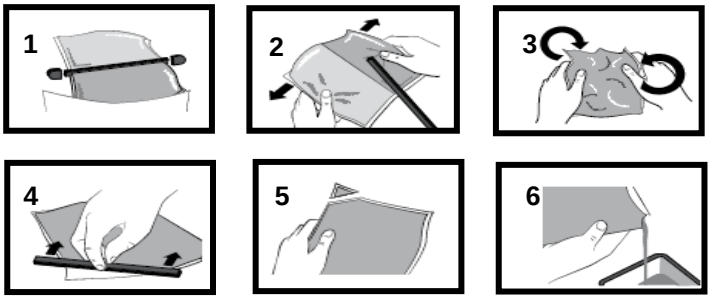
Mixing Procedures

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.