



TECHNICAL DATA SHEET

ENGLISH

RS 199-1474 Polyurethane Resin

RS 199-1474 is a clear semi-flexible and durable resin. The low mixed system viscosity enables preparation of bubble free potting and casting.

- High water resistance
- Good electrical properties
- Excellent adhesive properties
- Excellent resistance to acids, alkalis and other aqueous materials

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

Typical Properties:

Liquid Properties:	Density Part A - Resin (g/ml)	1.00
	Density Part B - Hardener (g/ml)	1.21
	Part A Viscosity (mPa s @ 23°C)	1700
	Part B Viscosity (mPa s @ 23°C)	20
	Mixed System Viscosity (mPa s @ 23°C)	1000
	Mix Ratio (Weight)	2.51:1
	Mix Ratio (Volume)	3.03:1
	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)	0.25
	Cured Density (g/ml)	1.06
	Temperature Range (°C)	-50 to +120
	Dielectric Strength (kV/mm)	10
	Volume Resistivity (ohm-cm)	10 ¹³
	Shore Hardness	A60
	Colour (Mixed System)	Clear Amber
	Flame Retardancy	No
	Loss Tangent @ 50 Hz	0.02
	Permittivity @ 50 Hz	3.90
	Comparative Tracking Index	Not Measured
	Water Absorption 10 days @ 20°C / 1 hour @ 100°C	< 0.5% / <1%



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Packaging

350g kit

Order Code

RS 199-1474

Mixing Procedures

Follow instructions on the leaflet provided.

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.