

NP1178

RE-ENTERABLE POLYURETHANE POTTING COMPOUND

FULLY RoHS COMPLIANT CONTAINING NO HEAVY METALS

Product Description

NP1178 is a two-component re-entenable polyurethane potting compound that forms an excellent water resistant barrier around encapsulated

components. The cured resin is flexible at temperatures as low as -50°C, protecting components from physical and thermal shock.

Typical Uncured Physical Properties

Property	Base	Hardener	Mixed System
Viscosity (mPas)	6500	100	1000
Colour	Cream	Blue	Sky Blue
Specific Gravity	1.39	0.99	1.29
Mix Ratio	4.5 3.2	1 1	By Weight By Volume

Pot Life	20 Minutes	200 g @ 23°C
Gel Time	60 Minutes	200 g @ 23°C
Complete Cure	72 Hours	200 g @ 23 °C

Typical Cured Properties

Property	Result	Units
Operating Temperature	-60 to +110	°C Continuous
Shore D Hardness	25-35	After 72 hours
Electric Strength	15	kV/mm
Comparative Tracking Index	>850	V
Thermal Conductivity	0.04	W/mK
Deflection Temperature	-50	°C (Approx)

Note: The above technical information and data should be considered representative or typical only and should not be used for specification purposes.

FEATURES

- Outstanding Water Resistance
- Flexible at Very Low Temperatures
- Excellent Electrical Properties
- Limits Stress on Electrical Components

APPLICATIONS

- Assemblies
- Power Supplies
- Modules
- Drivers
- Batteries





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TECHNICAL DATA

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Supply	Details
Twinpacks	Ideal for mixing without the entrapment of air.
Kits	The resin base and hardener are supplied in two separate containers, pre-weighed to facilitate accurate mixing for larger applications.
Bulk 5kg, 10kg, 20kg & 25kg	Available in proportioned containers. The NP1178 system is formulated to prevent sedimentation on storage. However, storage at higher ambient temperatures (above 25°C for instance) or for long times, can cause some settlement. It is important that any sediment is redispersed into the bulk resin prior to using the resin. This can be done by stirring with a long spatula
Shelf Life	The materials should be stored in the original unopened containers under cool dry conditions at temperatures between 10 and 25°C. The shelf life is one year. Opened containers should be resealed.

Health & Safety

Refer to Product Label and Material Safety Data Sheet for health and safety information before using this product. All Products should be used in accordance with your own COSHH Assessments. For additional health and safety information, call 01373 858234.

Technical Information

The technical information, recommendations and other statements contained in this document are based upon tests or experience that ALH believes are reliable, but the accuracy or completeness of such information is not guaranteed.

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