



TECHNICAL DATA

NP1172

WATER RESISTANT POLYURETHANE POTTING COMPOUND

Fully RoHS Compliant containing no heavy metals

Product Description

NP1172 is a two-component polyurethane resin system that forms an excellent water resistant barrier around encapsulated components. The resin is flexible at temperatures as low as -60°C.

Features

- * Outstanding Water Resistance
- * Flexible at Very Low Temperatures
- * Excellent Electrical Properties
- * Convenient Mix Ratio (can be cartridge dispensed)
- * Imparts No Stress on Electrical Components

Typical Uncured Physical Properties

Property	Base	Hardener	Mixed System
Viscosity (mPas)	15,000	100	4000
Colour	Orange	Clear Straw	Orange
Specific Gravity	1.19	1.01	1.13
Mix Ratio	2.4	1	By Weight
	2.0	1	By Volume

Pot Life	20 Minutes	200 g @ 23°C
Gel Time	70 Minutes	200 g @ 23°C
Complete Cure	48 Hours	200 g @ 23°C



Typical Cured Properties

Property	Result	Units
Operating Temperature	-60 to +100	°C Continuous
Shore A Hardness	45	After 72 hours
Electric Strength	15	kV/mm
Comparative Tracking Index	>850	V
Thermal Conductivity	0.4	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.

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	Available in proportioned containers.
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.



Precautionary Information

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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