

NP1485 OPALESCENT POLYURETHANE POTTING COMPOUND

Product Description

NP1485 is a two-component polyurethane potting compound curing to an opaque translucent material that is stable in UV light.

The system reacts at room temperature to produce a tough abrasion resistant material with good hydrolysis resistance.

The LED Range of Resins

The NP1485 polyurethane system from our LED range of resins has been developed for potting and encapsulation applications.

The NP1485 PU system has improved adhesion to a wide range of materials and is shown not to be affected in our weathering tests.

The cured opalescent resin allows high transmission of diffuse light but hides the underlying electronic components.

Typical Uncured Physical Properties

Property	Base	Hardener	Mixed System
Viscosity (mPas)	700	2000	1000-1200
Colour	Clear	Clear	Opalescent
Specific Gravity	1.04	1.12	1.08
Mix Ratio	100 100	108 100	By Weight By Volume

Pot Life	7 Minutes	100 g @ 23°C
Gel Time	10-12 Minutes	100 g @ 23°C
Complete Cure	48 hours	100 g @ 23°C

For Best Results

- Make sure surfaces are dry and ideally warm (25–40°C) before potting.
- Mix the resin and hardener while warm (25–40°C). Keep in mind that warmer temperatures reduce working time—about half for every 10°C increase.
- Mixing large volumes (over 200 ml) can generate too much heat.
- Cure small or thin castings (under 5 mm) in warm conditions (25–60°C).

Typical Cured Properties

Property	Result	Units
Operating Temperature	-40 to +120	°C Continuous
Shore D Hardness	55	After 48 Hours
Electric Strength	15	kV/mm
Continuous Tracking Index	>850	V
Thermal Conductivity	0.25	W/mK
Deflection Temperature	60	°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

- Opalescent
- UV Stability
- Non-Toxic
- Cartridge Dispensing
- Water Resistant
- Tough & Abrasion Resistant

APPLICATIONS

- Assemblies
- Tracks
- LED Arrays
- Luminaires
- Uplights
- Lighting

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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.
Cartridges	50 ml/250 ml/400 ml – Mix without the entrapment of air or pot-life issues; resin is delivered directly to component; can be automated.
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.

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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