



TECHNICAL DATA

NP1490

Product Description

A 2-part water-white polyurethane with excellent UV resistance & optical clarity. Flexible and impact resistant with good air release properties. Good adhesion to hard plastics and prepared metals.

Features

- Water-white
- Moderate pot life
- Contains no SVHCs

Applications

- LED lighting
- Clear castings

Typical Uncured Physical Properties

Property	Base	Hardener	Mixed System
Viscosity (mPas)	500	500	500
Colour	Water white	Water white	Water white
Specific Gravity	1.07	1.13	1.10
Mix Ratio	0.94 1	1 1	By Weight By Volume

Gel Time	15 Minutes	50 g @ 23°C
Complete Cure	24 hours	50 g @ 23°C

Typical Cured Properties

Property	Result	Units
Operating Temperature	-40 to +130	°C Continuous (Application & Geometry Dependent)
Shore A Hardness	75	
Electric Strength	~15	kV/mm
Volume Resistivity	10 ¹⁴	Ohm.cm
Permittivity	~3.50	@ 50 Hz
Volume Shrinkage	5	%
Minimum casting thickness	4	mm

Cure schedule: 72h @ 23°C

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



Usage guide

NP1490 should be mixed & applied at a minimum temperature of 15°C and relative humidity <40% with a minimum recommended casting thickness of 4mm; sections thinner than this may take an excessively long time to cure and experience more moisture-induced foaming. Physical degassing after mixing at a minimum of 5mbar absolute pressure achieves best results.

Supply	Details
Twin packs	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	The NP1490 system should be stored at the recommended storage temperature and away from direct sunlight and high humidity.
Shelf Life	The materials should be stored in the original unopened containers under cool dry conditions at temperatures between 15 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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Version: 1
Date: 06/08/2025