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TECHNICAL DATA SHEET

NP1024

LOW VISCOSITY FLAME RETARDANT POLYURETHANE SYSTEM

FULLY RoHS COMPLIANT CONTAINING NO HEAVY METALS

Product Description

NP1024 is a two-part polyurethane resin system. The mixed system has a low, penetrating viscosity and a good pot life. The cured resin is flame retardant, and has excellent electrical properties. The resin has very good adhesive characteristics to a wide range of substrates.

Typical Uncured Physical Properties

Property	Base	Hardener	Mixed System
Viscosity (mPas)	4500	200	2000
Colour	Red	Brown	Red
Specific Gravity	1.46	1.23	1.41
Mix Ratio	4.72 4	1 1	By Weight By Volume

Pot Life	30 Minutes	200 g @ 23°C
Gel Time	90 Minutes	200 g @ 23°C
Gel Time	78 Hours	200 g @ 23°C

Typical Cured Properties

Property	Result	Units
Operating Temperature	-40 to +130	°C Continuous
Shore D Hardness	50-55	
Electric Strength	15	kV/mm
Comparative Tracking Index	>850	V
Flammability	Self - Extinguishing	To UL 94 V-0 Level
Thermal Conductivity	>0.04	W/mK

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

FEATURES

- Low Mix viscosity
- Excellent Electrical properties
- Flame Retardant
- Contains No Heavy Metal Catalysts
- Very Good Adhesion
- Useful Pot Life

APPLICATIONS

- Assemblies
- Power Supplies
- Modules
- Drivers

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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	The NP1024 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 basedupon tests or experience that ALH believes are reliable, but the accuracy or completeness of such information is not guaranteed.

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