J & S Adhesives Ltd

Technical Data Sheet - Nano470 - High

Product Description

Chemical Type:	Methacrylate Ester
Appearance (uncured):	Colourless
Components:	One component
Viscosity:	Medium
Cure:	Visible/UV Curing

Typical Application

Nano470 - High, is designed for bonding glass to glass, glass to metal.

Typical Properties of Uncured Material

Gravity @ 25°C:	1.06
Viscosity, 25°C, mPa●s (cp)	250 ~3000cp
Colour:	Clear
Flash Point:	>93°C
Fixture Tine (100 mW/cm^2 @ 365nm)	≤15LMS
Refractive Index:	1.48-1.51

Typical Properties of Cured Material

Temperature (°C)	-54+120
Hardness Shore D	65
Tensile Strength (Mpa)	≥12
Volumetric Shrinkage %	≤8.7
Coefficient of Thermal Conductivity W/(m●K)	0.10

Cure Properties

Nano470 - High, can be cured by irradiation with UV/Visible light of sufficient intensity. The cure rate and ultimate depth of cure will depend on light intensity, the spectral distribution of the light source, the exposure time and the light transmittance of the substrates.

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Usage

1. This product is light sensitive; exposure to daylight, UV light and artificial lighting should be kept to a minimum during storage and handling.
2. For best performance bond surfaces should be clean and free from grease.
3. Cure rate is dependent on lamp intensity, distance from lamp source, depth of cure needed or bond line gap and light transmittance of the substrate through which the radiation must pass.
4. Cooling should be provided for temperature sensitive substrates such as thermoplastics.
5. Excess uncured adhesive can be wiped away with organic solvent (e.g. Acetone).
6. Bonds should be allowed to cool before subjecting to any service loads.

Storage

It should be kept in an unopened container in a cool and dry location.

Optimal Storage:
$8°^{c}$ to $21°^{c}$. Storage below $8°^{c}$ or greater than $21°^{c}$ can adversely affect product properties.

Material removed from containers may be contaminated during use. Do not return product to the original container.
Keep away from children.

Note

The data contained herein are furnished for information only and are believed to be reliable. We can not assume responsibility for the results obtained by others over whose methods we have no control. It is the users responsibility to determine the suitability for the use's purpose of any production methods mentioned herein and to adopt such precautions as may be advisable for the protection of property and of person's against any hazards that may be involved in the handling and use thereof.

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