



Spectratite 3175

General Use UV Curable Adhesive

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Description

Spectratite 3175 is a clear acrylic UV curable adhesive designed for rapid cure in tacking, bonding, encapsulating, coating and sealing.

Features

Fast cure when exposed to UV light from various UVB-UVA light sources
100% solids, no VOC
Dry to touch surface if cured under inert atmosphere or using short (254nm) wavelength UV
Good bond clarity
Significant depth of cure, if needed
Room temperature cure, no post-baking necessary

Uncured Adhesive Properties

Color	Transparent, colorless to slightly yellow liquid
Viscosity @ 25°C	~1,000 cps
Density (g/ml)	1.12
Shelf life	12 months @ 25°C in original containers protected from light
Flash point	> 93°C (200F)

This material will normally be shipped at ambient conditions, the recommendation is to place the material into its intended storage upon receipt to secure shelf life. The product is **Light Sensitive!**

Handling

Mixing – One component – requires no mixing

Application

Applying - Bonding surfaces should be clean, dry and properly prepared. Spectra Group recommends several optimum surface preparation procedures. Applicators with black feedlines (to protect from premature light exposure) are recommended. Excess uncured adhesive can be wiped away with organic solvent (e.g. acetone or methyl ethyl ketone).

Curing – metal halide, various doped mercury vapor bulbs, Xe gas filled bulbs. The speed of cure to tack free or fully cured state depends on the UV intensity emitted by the source and the distance between the source and the substrate.

Physical Performance of Fully Cured Adhesive

Shore D Hardness	75
Tensile Modulus (ASTM D 638)	1000 MPa (145 KSI)
Tensile Strength (ASTM D 638)	25 MPa (3.6 KSI)
Elongation at Break (ASTM D638)	7 – 10%
Glass Transition Temperature, °C	52

Handling Precautions

Do not handle or use until the Material Safety Data Sheet has been read and understood. For industrial use only.

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General:

CAUTION! This material may cause eye and skin irritation or allergic dermatitis. It contains acrylate/methacrylate resins. As with most acrylate/methacrylate based systems, use this product with adequate ventilation. Do not get in eyes or on skin. Avoid breathing the vapors. Wash thoroughly with soap and water after handling. Empty containers retain product residue and vapors so obey all precautions when handling empty containers.