



Technical Data Sheet

Light-Curable Adhesives, Sealants, and Masks

Product 30007

UV curable adhesive for rapid and high strength bonding of glass and plastics.

Tangent Product 30007 is a solvent-free, UV/Visible light curable adhesive that forms resilient, high peel strength bonds between glass, steel, aluminum, stainless steel, and many plastics including acrylic. Product 30007 is a thixotropic gel which permits dispensing on curved and vertical surfaces. Bonds prepared using Product 30007 are optically clear and highly resistant to moisture and yellowing. This product is suitable for applications that involve environmental thermal cycling. Product 30007 is most optimally cured using a full spectrum UV curing lamp, (320-450nm wavelength). This product may also be cured using an LED curing system producing output wavelength of 365nm or 405nm.

UNCURED PROPERTIES

COMPOSITION	Urethane Acrylate / Monomer Blend
VISCOSITY	60,000 - 80,000 cP at 25°C., thixotropic gel
APPEARANCE	Transparent gel with a slight yellowish tint
SPECIFIC GRAVITY	1.1 to 1.3 at 25°C.
FLASH POINT	200° F.
TOXICITY	Refer to Material Safety Data Sheet
SHELF LIFE	One year

CURED PROPERTIES

SHORE HARDNESS, DUROMETER	D 25-40
WATER ABSORPTION, % 24 hour immersion at 22° C	< 1%
TEMPERATURE RANGE	-40° C – 140° C

**THE VALUES NOTED IN THIS TECHNICAL DATA SHEET ARE TYPICAL PROPERTIES.
THEY ARE NOT INTENDED TO BE USED AS PRODUCT SPECIFICATIONS.**

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CURE DATA / GUIDELINES [Glass substrates, 0.002-0.004 inch (0.050-0.100mm), time in seconds]

Honle Bluepoint LED, Spot Curing System	405 nm @ 2000 mW/cm ²	1-2 seconds
Honle Spot 100 LED, Flood Curing System	405 nm @ 250 mW/cm ²	3-6 seconds
Honle Bluepoint 4, UV Spot Curing System	320-450 nm @ 2000 mW/cm ²	1-2 seconds

Note: Actual cure rate in a production environment is dependent upon light source intensity, bond line distance from the light source, bond line gap or required depth of cure, and percentage of light transmission through the substrate covering the bond line. Please consult with Tangent Applications Engineering for assistance with curing equipment selection and process optimization.

PACKAGING OPTIONS - Standard packaging for this product includes 10 and 30 gram syringes, 300 gram cartridges, one kilogram bottles, and 17 kilogram pails. Other packaging options may be available upon request.

STORAGE – This is light sensitive material. Containers must remain covered when not in use.

Minimize exposure of uncured material to daylight, artificial light, and UV light during storage and handling. Store uncured product in its original, closed container in a dry location. Unless otherwise indicated on the product label, optimal storage temperatures are 10 to 30°C, (50 to 86°F). Any material removed from the original container must not be returned to the container as it could be contaminated. Tangent Industries cannot assume responsibility for products that were improperly stored, contaminated, or repackaged into other containers.

HANDLING AND CLEAN-UP – For safe handling information, consult this product's **Material Safety Data Sheet (MSDS)** prior to use. Uncured material may be wiped away from surfaces with organic solvents. Do not use solvents to remove material from eyes or skin!

USING THE PRODUCT – Prior to dispensing, ensure that each surface coming in contact with this product is clean and free of grease, mold release, or other contaminants. Dispense directly from the package, or utilize appropriate dispensing equipment that is compatible with light-curable adhesives and coatings. Fluid lines and dispense tips must be 100% light blocking. Curing stations should be equipped with air exhaust systems to evacuate vapors and heat generated during the curing process. After curing, this product must be allowed to cool to ambient temperature before testing the product's performance.

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