



## TECHNICAL BULLETIN

### UV-8509R

#### ONE COMPONENT UV CURABLE ADHESIVE

##### Product Description

UV-8509R is a non-sag, fast curing, urethane acrylate that bonds well to engineered plastics and metal based substrates. This product requires direct UV exposure during cure. Because of the variability of different UV light sources it is suggested that the user test and specify UV intensity and exposure time. This material is specially formulated to have reduced surface tack due to oxygen inhibition.

##### APPLICATIONS

- PET clamshell
- Connector seal

##### FEATURES

- Non sag paste
- UV curable
- Fast cure time
- Reduced surface tack

##### RECOMMENDED SUBSTRATES

- Metals
- Plastics (PET, Mylar, Lexan®, Ultam®)
- Glass

#### UNCURED PROPERTIES\*

Property	Value	Test Method
Solvent Content	No Nonreactive Solvents	N/A
Chemical Class	Acrylated Urethane	N/A
Appearance	Clear	N/A
Viscosity @ 25°C, cps	8,000 - 12,000	Sp. 4, 20rpm
Thixotropic Index	>2.5	NA
Specific Gravity	1.05	ESTM-04

#### CURED MECHANICAL PROPERTIES\*

Property	Value	Test Method
Durometer Hardness, Shore A	50	ESTM-05A
Elongation, %	200	ASTM D638
Operating Temperature Range, °C	-50 to 100	N/A

#### UV LIGHT CURE DATA\*

Property	Value	Test Method
Minimum Intensity, mw/cm <sup>2</sup>	150	N/A
Spectral Output, Nm	300 to 400	N/A
Optimum Wavelength, Nm	365, 415	N/A

##### Storage:

Store material in cool, dry location at a temperature between 10°C to 28°C. Material is sensitive to UV and visible light. Refer to packaging specific quote for shelf information. Consult SDS for safe handling recommendations.