



Adhesive Systems, Inc.
An ISO 9001:2008 Certified Company

MAXIMUM PERFORMANCE SERIES
MP531006I
UV ADHESIVE

TECHNICAL DATA SHEET
TDS #: MP531006I
UV Adhesive

DESCRIPTION

MP531006I is a high performance UV curing adhesive engineered to bond plastics. It can be used in a variety of product assemblies and it promotes innovative design solutions. It is a fast cure, strong bond adhesive that is very flexible. Our MP531006I is a leading performer when used for bonding PET, PVC, Clamshell packaging, and general industrial applications. During in-line inspection this adhesive fluoresces a blue color when using a low intensity black light. MP531006I is often cured with an electroless lamp D, medium pressure halide lamp. This UV adhesive also works well with UV light emitted diodes (UV LED) at wavelengths of 365 nm to 395 nm. Design engineers select MP531006I for the optimum in finished product quality, reliability, performance, and cost effectiveness. MP531006I is an essential tool in improving overall product quality, lowering per unit cost, and reducing processing time.

PHYSICAL PROPERTIES (UNCURED):

Chemical Class	Acrylate Solvent
Content	None
Appearance	Colorless Liquid
Density, g/ml	1.02
Viscosity, 25 °C, 20 RPM	2800cp-4000cp
Flash Point °C	95

Benefits

- Superior Bond Strength
- Solvent Free
- Low Odor
- Improves Finished Product Quality
- Durable
- Good Impact and Vibration Resistance
- Easily Automated
- No Clean Up

***Substrate Applications**

PET
PVC
Plastics

such as corona, etc.

PHYSICAL PROPERTIES (CURED):

Durometer Hardness	D30
Water Absorption, 2 hrs. @100 °C	5.7%
Water Absorption, 24 hrs. @ 25 °C	6.0%
Glass Transition Temperature, °C	19
Lap Shear Strength PSI Polycarb.	860
Dielectric Constant	<4
Dielectric Strength, volts/mil	>400
Working Temperature °F	-60 to 300

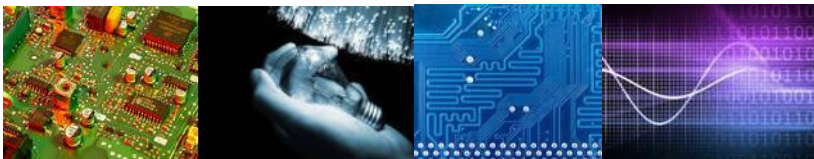
Blue Fluorescing Yes

CURE SCHEDULE

Medium Pressure Metal Halide Flood Lamp Station @ 50mW/cm2	5 seconds for 20% UV block PVC
Fusion F 300 S Lamp D Conveyor @ 750 mW/cm2	Belt Speed @ 20 FPM
Fixed time between 2 Glass Slides @ low intensity black light	1 second
Cure Depth @ 50 mW/cm2 for 2 minutes	0.7 inch
Uv LED 365 nm to 395 nm	Time depends on the intensity and wavelength

Storage and Shelf Life

This UV Cure material should be stored in the dark
Place, above 0°C and below 30 °C. The shelf life is one year from the date of manufacture.



Engineering Excellence

For technical information and support call 1-800-552-0299 or visit our website at

www.instantca.com

Directions for Use

- 1. This product cures at exposure to daylight. Minimize to expose during storage and handling.**
- 2. Surface of substrates should be clean and free from grease, mold release, or other contaminants.**
- 3. Cure speed is dependent on UV energy, intensity of UV Light, required depth of cure and percentage of light transmission of substrates.**
- 4. For the best performance, Fusion Lamp D or medium pressure metal halide should be used. Also, UVLED at 365 nm to 395 nm can be used.**
- 5. Allow cured parts to cool before testing to any service loads.**
- 6. Air inhibits a surface cure. To minimize this effect an inert gas such as nitrogen can be used or a higher intensity can be used.**

NON-WARRANTY: Information contained herein is based on tests we believe to be reliable and accurate. It is offered in good faith for the benefit of the consumer. Adhesive Systems shall not be liable for any injury, loss, or damage in the use of its chemical products since the conditions of use are beyond our control. In every case we urge and recommend the user conduct tests to determine to their own satisfaction that the product is of acceptable quality and is suitable for their particular purpose under their own operating conditions. Statements concerning the possible use of our products are not intended as recommendations to use our products in the infringement of any patent. Because of changing reporting requirements and other variables it is impossible to guarantee the accuracy of the information contained in this document. It is the responsibility of the user to determine proper personal protection based on the actual condition of use and to comply with all Federal, State, and Local laws and regulations.