UV/Visible/Heat/Activator Curable Flexible Low Shrink Encapsulant

PRODUCT DESCRIPTION
Incure Uni-Seal™ 3718F UV/Visible/LED curable adhesive is an encapsulant for electronic components on printed circuit boards. Product can be cured in seconds, with optional secondary heat cure. Exhibits low stress and low shrinkage properties during cure and is often used as a moisture barrier for sensitive components. Formulated with enhanced moisture and temperature resistance, with fluorocuring feature to aid inspection. It is 100% solids, contains no volatiles and is ideal for product requiring thermal cycling.

UNCURED PROPERTIES
- **Chemical Type**: Urethane-Acrylate, 100% Solids, No Solvents
- **Appearance**: Single Component, Slightly Translucent
- **Density, g/ml**: 1.08
- **Refractive Index**: 1.50 @20°C
- **Transmittance**: >93
- **Toxicity**: Low (Refer to MSDS)
- **Viscosity, cP (rpm)**: 20 @ 10,000 - 18,000 Spindle 6
- **Other viscosities are available upon request. If the viscosity range requested is not our standard offering, this product may be produced with a small lab fee.”

Email us at: support@uv-incure.com or your nearest local distributor for more information.

ASTM D2556

RECOMMENDED UV CURE SCHEDULE (FULL CURE)
- **Full Cure Exposure Time**: ≥ 140
- **Exposure Time (s)**: ≥ 140
- **F200P™ @3.75” Dist**: 5.0 mW/cm²
- **Belt Speed (ft/min)**: 1.5 mJ/cm
- **F500™ @3.0” Dist**: 3.0 mW/cm²
- **Belt Speed (ft/min)**: 1.5 mJ/cm
- **S20™ Spot (4-Pole LG 0.6” Dist**: 3.0 mW/cm²
- **Exposure Time (s)**: 3.0 mJ/cm
- **L9000™ LED Spot @ 0.67” Dist**: 2.80 mW/cm²
- **Exposure Time (s)**: 2.80 mJ/cm

UV INTENSITY REFERENCE TABLE

<table>
<thead>
<tr>
<th>Incure UV Curing Lamp Model</th>
<th>Full Cure Exposure Time</th>
<th>UVA</th>
<th>UVB</th>
<th>UVC</th>
<th>UVV</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>150</td>
<td>43</td>
<td>5</td>
<td>140</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1.0</td>
<td>1.0</td>
<td>1.0</td>
<td>1.0</td>
</tr>
</tbody>
</table>

Cure times on 8mm ø adhesive sample. Belt speeds using C9000-F200Px1AB (Flood) and C9000-F500x1AC (Focused Beam) conveyors for area curing. Please consult IncureLab™ for any other requirements.

UV CURING SCHEDULE FOR THIS PRODUCT

<table>
<thead>
<tr>
<th>Wavelength</th>
<th>UVA (320-400nm)</th>
<th>UVB (290-320nm)</th>
<th>UVC (290-200nm)</th>
<th>VUV (400-700nm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Minimum Intensity</td>
<td>150 mW/cm²</td>
<td>43 mW/cm²</td>
<td>5 mW/cm²</td>
<td>140 mW/cm²</td>
</tr>
<tr>
<td>Total Energy Required</td>
<td>750 mJ/cm²</td>
<td>215 mJ/cm²</td>
<td>25 mJ/cm²</td>
<td>700 mJ/cm²</td>
</tr>
</tbody>
</table>

SHELF-LIFE, STORAGE, USE AND HANDLING OF THIS PRODUCT

- **Shelf-Life**: A minimum of ONE (1) year from date of manufacture.
- **Storage**: Safe handling of this product, please read Material Safety Data Sheet (MSDS) prior to use. Organic solvents, such as IPA, may be used to wipe away uncured material from surfaces.
- **EtO and Gamma Sterilization**: Not Applicable for this Product

All Incure medical products are formulated to suit standard sterilization methods, such as EtO and Gamma Radiation of 25 to 50 kGyrs (cumulative). Enhanced moisture and thermal resistance of this product show excellent adhesion and bonding strength after one cycle of steam autoclave test. Depending on bond design and structure of the application, users should test specific assemblies after subjected them to sterilization. Consult Incure Support Team for assistance, if your devices are subjected to more than one sterilization cycles.

NOTE
The data contained in this document are for information only. We cannot assume responsibility for the results obtained by others over whose methods we have no control. It is the user's responsibility to determine suitability for the user's purpose of any production methods mentioned herein. INCURE will not be liable for any indirect, special, incidental or consequential loss or damage arising from this INCURE product, regardless of the legal theory asserted. INCURE recommends that each user adequately test its proposed use and application before repetitive use, using this data as a guide.