**Optical Bonding Advantages**

Optical Bonding offers many advantages over air gap bonding and most other bonding materials for display manufacturing. What makes optical bonding better?

- **Advanced display performance**
  - Fast and accurate touch response time
  - Can enable larger display sizes than alternative bonding methods
  - Silicone optical bonding adhesives remain clear over time
  - Generate high contrast displays using less device power at lower operating temperatures

- **Supports durable and rugged displays**
  - Prevents condensation and fogging in humid environments
  - Scratch and dirt resistance in environments where air quality is an issue
  - Reduces or eliminates the need for custom protective enclosures or heavy soda-lime cover glass
  - Withstands use in high-traffic public environments
  - Vibration and shock resistant seals

- **Enhances display images**
  - Higher resolution and clearer display
  - Low surface and ambient light reflection
  - Wider viewing angle
  - Reduces eye strain from reflections

- **Improves user experience**
  - Fewer layers allow for a slimmer device design
  - Enables the creation of lighter weight displays for easier integration, installation and servicing
  - Enables multi-touch display interaction
  - Reduces parallax effects decreasing display lag and providing precise touch alignment in touch-based systems

- **Optical Bonding**
  - Advantages
  - Optical Bonding offers many advantages over air gap bonding and most other bonding materials for display manufacturing. What makes optical bonding better?

- **InvisiSil UV Cure Silicone**
  - One part silicones that cure rapidly with UV light and remain flexible after curing to help protect against thermal shock, CTE mismatch and impact.

- **InvisiSil Thermal Cure Silicones**
  - Two part, transparent gels that can cure with low heat even in shadowed areas. High elongation properties allow them to retain their shape and resist tearing.

- **InvisiSil Snap Cure Silicones**
  - Two part, fast-curing silicones with a typical cure time of 10 to 30 minutes at room temperature. Non-yellowing, shadow curability and less than .5% shrinkage rate to help reduce CTE mismatch.

- **InvisiSil UV Delay Cure Silicones**
  - Two-part silicone adhesives featuring delayed, UV light activated curing. Curing delay times can be controlled by UV intensity and/or duration.

- **InvisiSil Silicones for dam and fill**
  - One and two-part silicones with high dimensional stability, strong sealing and adhesive grip to help display manufacturers encapsulate and protect critical electronic components.

---

Momentive is a pioneer in developing solutions for optical bonding. Our portfolio of InvisiSil™ Optical Bonding silicones is used in many different types of optical bonding applications worldwide. InvisiSil silicones offer long-term reliability for display components that operate in extreme conditions. They are available in many formulations that can integrate seamlessly into modern assembly systems. With low conductivity and chemical reactivity, thermal stability and the ability to form watertight seals, InvisiSil silicones are ideal for optical bonding. They are available in a range of curing formulations to allow maximum design flexibility while offering long-term reliability to manufacturers of optical displays.

*InvisiSil is a trademark of Momentive Performance Materials Inc. or its affiliates*
Optical Bonding

Advantages

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Optical Bonding for Automotive Displays

Modern vehicles have become showcases for the latest in electronic technologies. From fully digital dashboards to individual rear seat entertainment, the role of displays in the automotive industry continues to grow. Vehicle screens face challenging conditions that include high temperatures and bright sunlight on a daily basis. Momentive’s InvisiSil Optical Bonding silicones can help automotive displays perform in these tough conditions. InvisiSil Silicones’ flexibility allows touchscreens to absorb the shock of harsh road conditions while their outstanding sealing capabilities enable glare reduction and enhance screen readability in bright light. To ensure the best performance from automotive displays, count on Momentive’s InvisiSil Optical Bonding silicones.

TYPICAL BENEFITS
- Protects against high and low temperatures
- Creates vibration and shock resistant seals
- Protects displays from condensation in humid environments
- Reduces reflections and enhances readability in bright light
- Enables high resolution displays

Optical Bonding for Electronic Applications

High quality displays are in ever-increasing demand. Users today spend significant amounts of time with electronic devices under many different conditions. Devices have to function whether indoors or outdoors. At a time when having information translates into competitiveness, high quality displays that enhance the user’s experience are critical. Displays bonded with Momentive’s InvisiSil Optical Bonding silicones can help improve readability in bright light. They can also help improve display responsiveness and enable higher resolution screens. With screens such an integral part of daily life, count on Momentive’s InvisiSil Optical Bonding silicones to help displays perform at their best.

TYPICAL BENEFITS
- Fast and accurate touchscreen response
- Enables multi-touch displays
- Protects from condensation in humid environments
- Reduces reflections and enhances readability in bright light

1. Instrument panel
2. Navigation screens and in-dash entertainment systems
3. Rearview mirrors
4. Seat-back and flip-down video screens

1. Marine navigation, sonar and instrumentation displays
2. Mobile phones, tablets and e-book readers
3. Digital signage and large screen displays

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InvisiSil UV Cure Silicones

One-part silicones that cure rapidly with UV light to help decrease cycle times in bonding operations. They remain flexible after curing to help protect against thermal shock and impact. They feature high light transmittance and reduced surface glare that can result in displays and touch-screen units that are more easily readable in sunlight or bright indoor light. InvisiSil UV Cure silicones are ideal for bonding outer layers to touch sensors in LCD touchscreen displays.

KEY FEATURES

- Cures with longer wavelengths than other UV Cure silicones (>=365nm)
- Strong adhesion to polycarbonate, PMMA and others
- Optically clear with a refractive index of 1.4
- Non-yellowing

OP2131SD

<table>
<thead>
<tr>
<th>Uncured Properties (Cure-type)</th>
<th>1P UV</th>
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<tr>
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<td>Transmittance (%) *3</td>
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</table>

*1 Metal halide/Oven
*2 GL-GL 100um thickness
*3 1mm thickness

Product Specifications are average data and are not to be used as or to develop specifications.

TYPICAL APPLICATIONS

Bonding outer layers with touch sensors in touch screen assemblies

PRODUCTS

OP2131SD
OP2831D(DAM)

Optical Bonding for Marine and Defense Applications

In marine and defense applications, displays are often subjected to extreme conditions that could cause standard displays to fail. From exposure to moisture and chemicals to readability in bright light to scratch resistance and thermal protection, Momentive’s InvisiSil Optical Bonding silicones offer the flexibility and sealing capability required to help keep displays working under the toughest conditions around. They can bond a wide range of overlays to help provide rugged, weather-resistant displays for industrial, and military applications. And with Momentive’s wide range of optical bonding silicones there’s a solution to fit almost any existing assembly process. When displays have to function no matter the conditions, count on Momentive’s Optical Bonding silicones to deliver.

1 Ruggedized tablets and wearable displays
2 Marine-grade displays and instruments
3 Law enforcement and military grade computers

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PROCESS

Dispensing    Bonding    Post/Cure (60 Seconds)    Auto Close (Optional)
Optical Bonding for Marine and Defense Applications

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**TYPICAL APPLICATIONS**

- Bonding outer layers with touch sensors in touch screen assemblies

**PRODUCTS**

- OP2131SD
- OP2831D(DAM)

**PROCESSES**

- Dispensing
- Bonding
- Post/Cure (1min. 60 seconds)
- Auto Cure (Optional)

**PRODUCT SPECIFICATIONS**

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<th>Uncured Properties</th>
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*1 Metal halide/Oven

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*3 1mm thickness

1 Ruggedized tablets and wearable displays
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InvisiSil’ Thermal Cure Silicones

Two-part, transparent gels that can cure with low heat—as low as 60°C (140°F)—in as little as 30 minutes even in shadowed areas. High elongation properties allow them to be stretched and pulled yet retain their shape and resist tearing. With excellent optical properties that help provide high light transmission, InvisiSil Thermal Cure silicones can help protect displays and touch screens from moisture and chemical agents in harsh environments while preserving clarity.

**KEY FEATURES**
- High elongation
- Low shrinkage
- Excellent adhesion
- 30 minute cure capability at 60°C (140°F)
- Optically clear with a refractive index of 1.4
- Non-yellowing

**TYPICAL APPLICATIONS**
- High performance sealing for electronic equipment

**PRODUCTS**
- OP1112
- OP1012
- OP2012S/L
- OP1912(DAM)

<table>
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<tr>
<th>PRODUCT SPECIFICATIONS</th>
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**PROCESS**
- Dispensing
- Alignment & Bonding
- Heat curing by Oven (60°C/30mins) (Optional)
- Auto Clave (Optional)

InvisiSil’ Snap Cure Silicones

Two-part, fast-curing silicones that can cure within 10 to 30 minutes at room temperature. Non-yellowing with shadow curing. Can be reworked for up to two days. Ideal for rapid curing without heat to help mitigate CTE mismatch. Typical shrinkage of less than 0.5% during cure, helps to reduce the chance of warpage and mura defects when used for thin film transistor (TFT) LCD panels. Offers excellent design flexibility and long-term reliability under harsh conditions.

**KEY FEATURES**
- Repairable
- Cures in shadow areas
- Room temperature cure
- Excellent leveling ability
- Optically clear with a refractive index of 1.4
- Non-yellowing

**TYPICAL APPLICATIONS**
- Automotive navigation screens
- Curved design lamination

**PRODUCTS**
- SN1001
- SN3001

<table>
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<th>PRODUCT SPECIFICATIONS</th>
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<td>Percent transmittance (1mm thickness 400nm)%</td>
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**PROCESS**
- Flat to Curved
- Dispensing
- Alignment & Bonding
- Heat curing by Oven (60°C/30mins) (Optional)
- Auto Clave (Optional)

**PRODUCTS**
- SN1001
- SN3001

**PROCESS**
- Flat to Flat
- Dispensing
- Alignment & Bonding
- Heat curing by Oven (60°C/30mins) (Optional)
- Auto Clave (Optional)
InvisiSil* Thermal Cure Silicones

Two-part, transparent gels that can cure with low heat—as low as 60°C (140°F)—in as little as 30 minutes even in shadowed areas. High elongation properties allow them to be stretched and pulled yet retain their shape and resist tearing. With excellent optical properties that help provide high light transmission, InvisiSil Thermal Cure silicones can help protect displays and touch screens from moisture and chemical agents in harsh environments while preserving clarity.

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- Optically clear with a refractive index of 1.4
- Non-yellowing

**TYPICAL APPLICATIONS**
- High performance sealing for electronic equipment
- Flat to Flat
- Flat to Curved

**PRODUCTS**
- OP1112
- OP1012
- OP2012S/L
- OP1912(DAM)

**PRODUCT SPECIFICATIONS**

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<td><strong>Transmittance (%)</strong></td>
<td>&gt;99</td>
<td>&gt;99</td>
<td>&gt;99</td>
<td>&gt;99</td>
</tr>
<tr>
<td><strong>400nm</strong></td>
<td>&gt;99</td>
<td>&gt;99</td>
<td>&gt;99</td>
<td>&gt;99</td>
</tr>
<tr>
<td><strong>800nm</strong></td>
<td>&gt;99</td>
<td>&gt;99</td>
<td>&gt;99</td>
<td>&gt;99</td>
</tr>
<tr>
<td><strong>Color coordinate (D65)</strong></td>
<td>L* 99.83</td>
<td>99.80</td>
<td>99.96</td>
<td>99.96</td>
</tr>
<tr>
<td>a* 0.18</td>
<td>0.10</td>
<td>-0.16</td>
<td>0.01</td>
<td></td>
</tr>
<tr>
<td>b* 0.02</td>
<td>0.01</td>
<td>0.01</td>
<td>0.00</td>
<td></td>
</tr>
<tr>
<td><strong>Haze (%)</strong></td>
<td>0.05</td>
<td>0.05</td>
<td>0.01</td>
<td>0.13</td>
</tr>
</tbody>
</table>

*Product Specifications are average data and are not to be used as or to develop specifications.

**PROCESS**
- Dispensing
- Alignment & Bonding
- Heat curing by Oven (60°C/30mins) (Optional)
- Auto Clave (Optional)
- Injection (10mins)
- Sealing & Loading (10mins)

InvisiSil* Snap Cure Silicones

Two-part, fast-curing silicones that can cure within 10 to 30 minutes at room temperature. Non-yellowing with shadow curability. Can be reworked for up to two days. Ideal for rapid curing without heat to help mitigate CTE mismatch. Typical shrinkage of less than 0.5% during cure, helps to reduce the chance of warpage and mura defects when used for thin film transistor (TFT) LCD panels. Offers excellent design flexibility and long-term reliability under harsh conditions.

**KEY FEATURES**
- Repairable
- Cures in shadow areas
- Room temperature cure
- Excellent leveling ability
- Optically clear with a refractive index of 1.4
- Non-yellowing

**TYPICAL APPLICATIONS**
- Automotive navigation screens
- Curved design lamination

**PRODUCTS**
- SN1001
- SN3001

**PROCESS**
- Flat to Flat
- Dispensing
- Alignment & Bonding
- Heat curing by Oven (60°C/30mins) (Optional)
- Auto Clave (Optional)

**PRODUCT SPECIFICATIONS**

<table>
<thead>
<tr>
<th></th>
<th>SN3001</th>
<th>SN1001</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Uncured Properties (Cure-type)</strong></td>
<td>2P Snap cure</td>
<td>2P Snap cure</td>
</tr>
<tr>
<td><strong>Appearance</strong></td>
<td>Transparent</td>
<td>Transparent</td>
</tr>
<tr>
<td><strong>Mix Ratio by weight/volume</strong></td>
<td>1:1</td>
<td>1:1</td>
</tr>
<tr>
<td><strong>Percent transmittance (1mm thickness 400nm)%</strong></td>
<td>&gt;99</td>
<td>&gt;99</td>
</tr>
<tr>
<td><strong>Percent transmittance (1mm thickness 800nm)%</strong></td>
<td>&gt;99</td>
<td>&gt;99</td>
</tr>
<tr>
<td>*<em>Cured Properties (Cure condition <em>1)</em></em></td>
<td>Tack-free time 23℃ x 30min</td>
<td>Full adhesion 2 days</td>
</tr>
</tbody>
</table>

| **Viscosity mPa.s** | 1,000 | 1,000 |
| **Adhesion (MPa)*2** | 0.6 | 0.6 |
| **Hardness Shore** | Gel | Gel |
| **Transmittance (%)** | >99 | >99 |
| **400nm** | >99 | >99 |
| **800nm** | >99 | >99 |
| **Color coordinate (D65)** | L* 99.88 | 99.88 |
| a* -0.15 | -0.15 |
| b* 0.05 | 0.05 |
| **Haze (%)** | 0.05 | 0.05 |

*Product Specifications are average data and are not to be used as or to develop specifications.

**PROCESS**
- Flat to Curved
- Dispensing
- Alignment Bonding
- Heat curing by Oven (60℃/30mins) (Optional)
- Auto Clave (Optional)
Silicone Solutions for Optical Bonding

**Key Features**
- High dimensional stability
- Strong sealing and gasketing
- Strong adhesion to most substrates without primer
- Compatible with other InvisiSil Silicones to fill the dam

InvisiSil® UV Delay Cure Silicones

Two-part silicone adhesives that activate with UV light. Delayed curing can allow two shadow areas where UV light cannot reach to be adhered or enables component alignment prior to final curing. Curing delay times can be controlled with UV intensity and/or duration. Final curing can be rapidly achieved with heat or more slowly attained at room temperature.

**Typical Applications**
- Dam and fill assembly and encapsulation of electronic components and modules

**Products**
- OP1912
- OP1922-B
- OP2831D
- TN8000

**Key Features**
- UV curing of shadow parts
- Delayed curing enables component alignment
- Adjustable curing time
- Optically clear with a refractive index of 1.4
- Non-yellowing

**Typical Applications**
- Bonding non-light transmitting components
- Assemblies that require alignment of components before final cure

**Products**
- UV Gel100
- InvisiSil® UV Delay Cure Silicones

**InvisiSil® Silicone for dam and fill applications**

One-part and two-part silicones that offer the high dimensional stability, strong sealing and adhesive grip typically required to create the border in dam and fill operations. InvisiSil dam and fill silicones cure quickly with heat and adhere well to a variety of substrates. They can be filled with any other InvisiSil product.

**Product Specifications**

<table>
<thead>
<tr>
<th>Uncured Properties (Cure-type)</th>
<th>UV Gel100</th>
</tr>
</thead>
<tbody>
<tr>
<td>Viscosity (mPa.s)</td>
<td>1,000</td>
</tr>
<tr>
<td>Adhesion (MPa*2)</td>
<td>0.3</td>
</tr>
<tr>
<td>Hardness (Penetration 0.1 mm Hollow cone 62.5 g; reading 5 sec)</td>
<td>120</td>
</tr>
<tr>
<td>Volume resistivity, ohm.cm</td>
<td>3×10^14</td>
</tr>
<tr>
<td>Dielectric strength V/μm</td>
<td>34</td>
</tr>
<tr>
<td>Dielectric constant (50 Hz)</td>
<td>2.9</td>
</tr>
</tbody>
</table>

**Process**
- Dispersing
- UV radiation (Unit: 90 Second)
- Open Time (Unit: 90 Second)
- Vacuum Bonding

**Typical Applications**
- Dam and fill assembly and encapsulation of electronic components and modules

**Products**
- OP1912
- OP1922-B
- OP2831D
- TN8000

**Key Features**
- High dimensional stability
- Strong sealing and gasketing
- Strong adhesion to most substrates without primer
- Compatible with other InvisiSil Silicones to fill the dam

**Product Specifications**

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<thead>
<tr>
<th>Function</th>
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<th>OP1922-B</th>
<th>OP2831D</th>
<th>TN8000</th>
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<tbody>
<tr>
<td>Dam</td>
<td>Dam</td>
<td>Dam</td>
<td>Dam</td>
<td>Sealing</td>
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<table>
<thead>
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<th>OP1922-B</th>
<th>OP2831D</th>
<th>TN8000</th>
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</thead>
<tbody>
<tr>
<td>2P Thermal</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2Part UV-Pr</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1Part UV cure</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1Part Condensation</td>
<td></td>
<td></td>
<td></td>
<td></td>
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<table>
<thead>
<tr>
<th>Appearance</th>
<th>OP1912</th>
<th>OP1922-B</th>
<th>OP2831D</th>
<th>TN8000</th>
</tr>
</thead>
<tbody>
<tr>
<td>Translucent</td>
<td></td>
<td>Black</td>
<td>Translucent</td>
<td>Black, White, Gray</td>
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</table>

<table>
<thead>
<tr>
<th>Mix Ratio by weight/volume</th>
<th>OP1912</th>
<th>OP1922-B</th>
<th>OP2831D</th>
<th>TN8000</th>
</tr>
</thead>
<tbody>
<tr>
<td>1:1</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1:1</td>
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<tr>
<td>1:1</td>
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<td></td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Cured Properties (Cure condition 1)</th>
<th>OP1912</th>
<th>OP1922-B</th>
<th>OP2831D</th>
<th>TN8000</th>
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<tbody>
<tr>
<td>60°C 30min</td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>4000 mJ/cm²</td>
<td></td>
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</tr>
<tr>
<td>3000 mJ/cm²</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>23°C/7 days</td>
<td></td>
<td></td>
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</table>

<table>
<thead>
<tr>
<th>Viscosity (Pa.s)</th>
<th>OP1912</th>
<th>OP1922-B</th>
<th>OP2831D</th>
<th>TN8000</th>
</tr>
</thead>
<tbody>
<tr>
<td>98</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>66</td>
<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td>35</td>
<td></td>
<td></td>
<td></td>
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</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Hardness (Penetration 57)</th>
<th>OP1912</th>
<th>OP1922-B</th>
<th>OP2831D</th>
<th>TN8000</th>
</tr>
</thead>
<tbody>
<tr>
<td>E13</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>A33</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Typical Applications**
- Dam and fill assembly and encapsulation of electronic components and modules

**Products**
- OP1912
- OP1922-B
- OP2831D
- TN8000
**InvisiSil’ UV Delay Cure Silicones**

Two-part silicone adhesives that activate with UV light. Delayed curing can allow two shadow areas where UV light cannot reach to be adhered or enables component alignment prior to final curing. Curing delay times can be controlled with UV intensity and/or duration. Final curing can be rapidly achieved with heat or more slowly attained at room temperature.

**KEY FEATURES**
- UV curing of shadow parts
- Delayed curing enables component alignment
- Adjustable curing time
- Optically clear with a refractive index of 1.4
- Non-yellowing

**TYPICAL APPLICATIONS**
- Bonding non-light transmitting components
- Assemblies that require alignment of components before final cure

**PRODUCTS**
- UV Gel100

---

**InvisiSil’ Silicones for dam and fill applications**

One-part and two-part silicones that offer the high dimensional stability, strong sealing and adhesive grip typically required to create the border in dam and fill operations. InvisiSil dam and fill silicones cure quickly with heat and adhere well to a variety of substrates. They can be filled with any other InvisiSil product.

**KEY FEATURES**
- High dimensional stability
- Strong sealing and gasketing
- Strong adhesion to most substrates without primer
- Compatible with other InvisiSil Silicones to fill-the-dam

**PRODUCT SPECIFICATIONS**

<table>
<thead>
<tr>
<th></th>
<th>OP1912</th>
<th>OP1922-B</th>
<th>OP2831D</th>
<th>TN8000</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Function</strong></td>
<td>Dam</td>
<td>Dam</td>
<td>Dam</td>
<td>Sealing</td>
</tr>
<tr>
<td><strong>Uncured Properties</strong></td>
<td>2P Thermal</td>
<td>2Part UV-Pr</td>
<td>1Part UV cure</td>
<td>1Part Condensation</td>
</tr>
<tr>
<td><strong>Appearance</strong></td>
<td>Translucent</td>
<td>Black</td>
<td>Translucent</td>
<td>Black, White, Gray</td>
</tr>
<tr>
<td><strong>Mix Ratio by weight/volume</strong></td>
<td>1:1</td>
<td>1:1</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td><strong>Cured Properties</strong></td>
<td>(30 minutes after radiation with 1200mJ/cm² UV and 1mW light 2)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Viscosity</strong> mPa.s</td>
<td>1.000</td>
<td>66</td>
<td>35</td>
<td>Non Flowable</td>
</tr>
<tr>
<td><strong>Adhesion</strong> (MPa)*2</td>
<td>0.3</td>
<td>34</td>
<td>2.9</td>
<td></td>
</tr>
<tr>
<td><strong>Volume resistivity, ohm.cm</strong></td>
<td>3x10^14</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Dielectric strength kV/mm</strong></td>
<td>120</td>
<td></td>
<td>120</td>
<td></td>
</tr>
<tr>
<td><strong>Diathermic constant (50 Hz)</strong></td>
<td>62.5</td>
<td>62.5</td>
<td>62.5</td>
<td></td>
</tr>
</tbody>
</table>

**PROCESS**

- Dispensing
- UV radiation (Unit: 00 Second)
- Open Time (Unit: 00 Second)
- Vacuum Bonding

---

**InvisiSil’ UV Delay Cure Silicones**

Two-part silicone adhesives that activate with UV light. Delayed curing can allow two shadow areas where UV light cannot reach to be adhered or enables component alignment prior to final curing. Curing delay times can be controlled with UV intensity and/or duration. Final curing can be rapidly achieved with heat or more slowly attained at room temperature.

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**TYPICAL APPLICATIONS**
- Bonding non-light transmitting components
- Assemblies that require alignment of components before final cure

**PRODUCTS**
- UV Gel100

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One-part and two-part silicones that offer the high dimensional stability, strong sealing and adhesive grip typically required to create the border in dam and fill operations. InvisiSil dam and fill silicones cure quickly with heat and adhere well to a variety of substrates. They can be filled with any other InvisiSil product.

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<tr>
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<td><strong>Uncured Properties</strong></td>
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</tr>
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<td></td>
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**PROCESS**

- Dispensing
- UV radiation (Unit: 00 Second)
- Open Time (Unit: 00 Second)
- Vacuum Bonding

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**InvisiSil’ UV Delay Cure Silicones**

Two-part silicone adhesives that activate with UV light. Delayed curing can allow two shadow areas where UV light cannot reach to be adhered or enables component alignment prior to final curing. Curing delay times can be controlled with UV intensity and/or duration. Final curing can be rapidly achieved with heat or more slowly attained at room temperature.

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- Non-yellowing

**TYPICAL APPLICATIONS**
- Bonding non-light transmitting components
- Assemblies that require alignment of components before final cure

**PRODUCTS**
- UV Gel100

---

**InvisiSil’ Silicones for dam and fill applications**

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**KEY FEATURES**
- High dimensional stability
- Strong sealing and gasketing
- Strong adhesion to most substrates without primer
- Compatible with other InvisiSil Silicones to fill-the-dam

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**PROCESS**

- Dispensing
- UV radiation (Unit: 00 Second)
- Open Time (Unit: 00 Second)
- Vacuum Bonding

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**InvisiSil’ UV Delay Cure Silicones**

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**TYPICAL APPLICATIONS**
- Bonding non-light transmitting components
- Assemblies that require alignment of components before final cure

**PRODUCTS**
- UV Gel100

---

**InvisiSil’ Silicones for dam and fill applications**

One-part and two-part silicones that offer the high dimensional stability, strong sealing and adhesive grip typically required to create the border in dam and fill operations. InvisiSil dam and fill silicones cure quickly with heat and adhere well to a variety of substrates. They can be filled with any other InvisiSil product.

**KEY FEATURES**
- High dimensional stability
- Strong sealing and gasketing
- Strong adhesion to most substrates without primer
- Compatible with other InvisiSil Silicones to fill-the-dam

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<th>OP1912</th>
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</tr>
<tr>
<td><strong>Cured Properties</strong></td>
<td>(30 minutes after radiation with 1200mJ/cm² UVA and UVB light 2)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Viscosity</strong> mPa.s</td>
<td>1.000</td>
<td>66</td>
<td>35</td>
<td>Non Flowable</td>
</tr>
<tr>
<td><strong>Adhesion</strong> (MPa)*2</td>
<td>0.3</td>
<td>34</td>
<td>2.9</td>
<td></td>
</tr>
<tr>
<td><strong>Volume resistivity, ohm.cm</strong></td>
<td>3x10^14</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Dielectric strength kV/mm</strong></td>
<td>120</td>
<td></td>
<td>120</td>
<td></td>
</tr>
<tr>
<td><strong>Diathermic constant (50 Hz)</strong></td>
<td>62.5</td>
<td>62.5</td>
<td>62.5</td>
<td></td>
</tr>
</tbody>
</table>

**PROCESS**

- Dispensing
- UV radiation (Unit: 00 Second)
- Open Time (Unit: 00 Second)
- Vacuum Bonding