InvisiSil* OP2131SD
UV-Cure Optical Bonding Silicone

Description

InvisiSil OP2131SD UV-cure optical bonding silicone is used in the interlayer of displays and touch-screen modules, to enhance the delivery of high light transmittance and help reduce surface glare, allowing displays and touch-screen units to be more easily readable in sunlight or bright indoor light. InvisiSil OP2131SD uv-cure optical bonding silicone can also help protect touch screens and displays against thermal shock and impact.

Potential Applications
• Optical bonding for Automotive and Consumer Displays

Typical Physical Properties

<table>
<thead>
<tr>
<th></th>
<th>OP2131SD</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Uncured properties</strong></td>
<td></td>
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<tr>
<td>Appearance</td>
<td>Transparent</td>
</tr>
<tr>
<td>Viscosity (23degreeC)</td>
<td>Pa.s</td>
</tr>
<tr>
<td>Specific gravity (23degreesC)</td>
<td>1.02</td>
</tr>
<tr>
<td>Curing energy *1</td>
<td>mJ/cm</td>
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</tbody>
</table>

| **Cured properties**                  |                |
| Appearance                            | Transparent rubber |
| Hardness TYPE E *2                    | 7              |
| Lap shear strength (Thickness 0.1mm) *3 | MPa           | 0.4    |
| Volume resistivity                    | MΩ•m{Ω•cm}     | 1.0x10^7{1.0x10^{15}} |
| Dielectric strength                   | kV/mm          | 18     |

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Dielectric constant (60Hz)  |  2.7
Dielectric loss (60Hz)  |  0.002
Haze *4  |  %  |  0.2
YI (D1925) *4  |  0.4

*1: Fusion D lamp, 0.1mm thickness *2: 2mm thickness sheet_3Pcs *3: Glass substrate
*4: Glass(1mm)/LOCA(180mm)/Glass(1mm)

Typical properties are average data and are not to be used as or to develop specifications.
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**General Considerations for Use**

- Materials such as water, sulfur, nitrogen compounds, organic metallic salts, phosphorus compounds, etc. contained in the surface of the substrate can inhibit curing. A sample patch should always be tested prior to proceeding in order to determine compatibility.

- All parts should be as clean and dry as possible prior to application.

- Eye protection and protective gloves should be worn at all times when working with this product.
- Maintain adequate ventilation in the work place at all times.
- Keep out of the reach of children.
- Store in a cool dry place out of direct sunlight.

**Patent Status**
Nothing contained herein shall be construed to imply the nonexistence of any relevant patents or to constitute the permission, inducement or recommendation to practice any invention covered by any patent, without authority from the owner of the patent.

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