ZetaFill-F3 LV-T1
Active Filler

Product description
ZetaFillTM-F3/LV-T1 is a low-viscosity thermally curable dispensable dryer, designed for use in OLED and organic electronics applications. Due to its viscosity it can be applied by blading or syringe.

ZetaFill-F3/LV-T1 films work as irreversible moisture getter up to 180 °C.

ZetaFill-F3 Moisture Sorption
Calculation example
Sorption capacity in air: 1% of dry weight
1cm x 1cm x 50 μm = 0.005 cm³ x 1.9 g/cc = 0.0095 g = 9.5 mg
Moisture capacity = 9.5 mg x 1% = 0.095 mg

(*) at a shear rate of 5 s⁻¹

Processing
Bring ZetaFill-F3/LV-T1 to room temperature before use.
A filtration process is not recommended in order to avoid particle aggregation.
Process temperature higher than 100 °C has to be avoided.

Deposition
Deposition has to be carried out under nitrogen or dry air atmosphere.
Apply via blading or dispense by syringe on the desired surface.

Compatible surfaces are
- Glass
- Stainless Steel and other metals
- Plastics

<table>
<thead>
<tr>
<th>Material Property</th>
<th>Typical value</th>
<th>Paste</th>
<th>Cured Film</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Whitish-yellow liquid</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Viscosity at 25°C (cP)(*)</td>
<td>4,000</td>
<td>NA</td>
<td></td>
</tr>
<tr>
<td>Density (g/cm³)</td>
<td>1.9</td>
<td>1.9</td>
<td></td>
</tr>
<tr>
<td>Moisture capacity (wt %)</td>
<td>1</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Maximum particle size (μm)</td>
<td>&lt;1</td>
<td>&lt;1</td>
<td></td>
</tr>
<tr>
<td>Storage temperature (°C)</td>
<td>2 - 5</td>
<td>-30 - +120</td>
<td></td>
</tr>
<tr>
<td>Shelf life (months)</td>
<td>3</td>
<td>NA</td>
<td></td>
</tr>
<tr>
<td>Pot life (RT, &lt; 10 ppm H₂O₂)</td>
<td>5</td>
<td>NA</td>
<td></td>
</tr>
<tr>
<td>Storage atmosphere</td>
<td>Dry if bag is opened</td>
<td>Dry</td>
<td>Dry</td>
</tr>
</tbody>
</table>
Curing

- Suggested curing conditions are: 100 °C for 60 minutes (or 150 °C for 30 minutes; 80 °C for 90 minutes)
- Inert flowing gas or vacuum is required
- No outgassing is observed during curing
- Shrinkage about 4%

Shipping and Storage
ZetaFill-F3/LV-T1 shelf life is >3 months (keeping the barrier bag sealed). ZetaFill-F3/LV-T1 must be stored between 2 and 5 °C and placed at RT for 2 hours before usage.
Pot life at RT is 5 days.

Ordering Information
Code: SX0959 Description: ZETAFILL-F3/LV-T1/SMT10 (Musashi syringe - 10cc)