

## Technical Data Sheet Ultrabond 758

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### Product Description

**Hernon<sup>®</sup> Ultrabond 758** Is a low viscosity self leveling UV curable potting compound formulated to provide high performance, fast curing, coating and encapsulating of electronic components. This product is also used for shallow potting applications.

### Product Benefits

- UV fluorescence for in-process inspection
- 100% solid system (no solvents)
- Excellent adhesion to a variety of surfaces
- Excellent environmental resistance
- Good gap filling properties
- No shrinkage due to solvent evaporation
- Rapid room temperature cure

### Typical Properties (Uncured)

Property	Value
Chemical Type	Modified Acrylic Ester
Appearance	Clear liquid
Specific Gravity @ 25°C	1.04
Viscosity @ 25°C, cP	300
Flash Point	See MSDS

### Typical Curing Performance

**Ultrabond 758** will cure rapidly at room temperature when exposed to high intensity ultraviolet light (365 nm).

#### Fixture and Tack Free Time

100mW/cm<sup>2</sup> at 365 nm

Property	Value
Fixture time, glass, seconds	5
Tack free time, seconds	25

### Typical Properties (Cured)

#### Physical Properties

Property	Value
Coefficient of thermal expansion, K <sup>-1</sup> , ASTM D696	80 × 10 <sup>-6</sup>
Coefficient of thermal conductivity, W/(m·K), ASTM C177	0.1
Tensile strength, psi, ASTM D638	3250
Modulus, psi, ASTM D638	108000
Elongation, %, ASTM D638	85
Hardness, Shore B, ASTM D2240	95
Temperature range, °C, (°F)	-54 to 177 (-65 to 350)
UV depth of cure, mm (in.)	2.54 (0.10)

#### Electrical Properties

Property	Value
Dielectric Strength, kV/mm, ASTM D149	36
Dielectric Constant at 1 kHz, ASTM D150	4.25
Dissipation Factor at 1 kHz, ASTM D150	0.03
Volume Resistivity, Ω·cm, ASTM D257	1.7 × 10 <sup>15</sup>

### General Information

**This product is not recommended for use in pure oxygen and/or oxygen rich systems and should not be selected as a sealant for chlorine or other strong oxidizing materials.**

**For safe handling information on this product, consult the Material Safety Data Sheet (MSDS).**

#### Factors Affecting UV Curing

- Dark surfaces lengthen cure time.
- Full range (UV-A, B & C) lamps provide faster cures than filtered sources.
- All UV sources degrade with use. Check output with a radiometer.
- Thicker films require longer cures.
- Light intensity decreases as distance from UV source increases.
- Some clear plastics may contain UV inhibitors.

**Precautions When Using UV Lamps**

- Never look directly at UV source.
- Wear protective UV goggles
- Do not expose bare skin to high intensity UV light.
- Wear protective clothing.
- Use in a well-ventilated area. Some UV sources generate ozone. Provide shielding around high intensity UV sources.
- High intensity UV sources generate heat. Take appropriate precautions.

**Storage**

**Ultrabond 758** should be stored in a cool, dry location in unopened containers at a temperature between 46°F to 82°F (8°C to 28°C) unless otherwise labeled. Optimal storage is at the lower half of this temperature range. To prevent contamination of unused material, do not return any material to its original container.

**Dispensing Equipment**

**Hernon**<sup>®</sup> offers a complete line of semi and fully automated dispensing equipment. Contact **Hernon**<sup>®</sup> **Sales** for additional information.

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