

Structural Adhesives

DVD Adhesives

XD 4761

UV curing acrylic adhesive

Key properties

- Suitable for DVD 9 (Silver alloy: Aluminium)
- Suitable for DVD 9 (Silver alloy: Silver alloy), DVD 9 (Gold: Aluminium), and DVD 9 (Silicon:Aluminium)
- Suitable for DVD 5, DVD 10
- Low viscosity
- All formats pass 80°C / 95%RH / 96 hours climate test
- Very fast cure under UV light

Typical product data

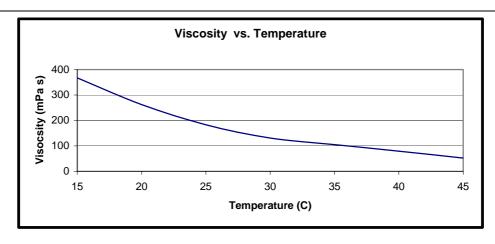
| Property | XD 4761 | | |
|-------------------------|-----------------------------|--|--|
| Appearance | Clear, light yellow, liquid | | |
| Viscosity at 25°C | ca. 190 mPas | | |
| Refractive index (25°C) | ca. 1.49 | | |

Cured strength data

| Polycarbonate: Polycarbonate | 7.6 N/mm ² |
|------------------------------|-----------------------|
| Polycarbonate: Aluminium | 3.3 N/mm ² |
| Aluminium: Aluminium | 2.3 N/mm ² |
| Silver Alloy: Aluminium | 2.4 N/mm ² |
| Silver Alloy: Silver Alloy | 2.4 N/mm ² |

^{*} Substrates are prepared by wiping with isopropanol, to remove any residues prior to bonding. All substrates are DVD polycarbonate based sputtered with the designated layer. All the following properties were determined after passing under a medium pressure mercury lamp. All results are for lap shear specimens with a 12.5mm x 25mm bonded overlap and uncontrolled bond line thickness of 50-150 microns. This data is provided solely as technical information and does not constitute a product specification.

Processing



Wellmid Electronics (Shenzhen) Co., Ltd. Web: www.wellmid.com Email: wellmid@wellmid.com Tel: 86-755-28168941 Fax: 86-755-22648848 XD 4761 will cure readily with most lamp types; the cure is dependant on the adhesive layer thickness, the output of the light source and distance of the adhesive from the lamp, as well as the substrate.

| Dose of UV light | 200 mJ/cm ² |
|-----------------------------------|------------------------|
| Time for full through cure | 0.5 sec |
| Total dose required for full cure | 50 mJ/cm ² |
| Time required for surface cure | 1.0 sec |

Climate Data

DVD 9 (Silver Alloy: Aluminium) 80°C / 95%RH / 96 hours

| System Jitter (%) | Before Climate Ageing | | After Climate Ageing | | Delta | |
|-------------------|--------------------------|---------|-------------------------|---------|---------|---------|
| Radii | Layer 0 | Layer 1 | Layer 0 | Layer 1 | Layer 0 | Layer 1 |
| 24 nm | 4.7 | 5.7 | 5.4 | 6.3 | 0.7 | 0.6 |
| 32 nm | 4.5 | 5.7 | 5.3 | 6.5 | 0.8 | 0.8 |
| 40 nm | 4.7 | 6.2 | 5.5 | 7.0 | 0.8 | 0.8 |
| 49 nm | 5.2 | 6.7 | 5.9 | 7.4 | 0.7 | 0.7 |
| 57 nm | 5.7 | 7.5 | 5.9 | 7.6 | 0.2 | 0.1 |
| PI Errors | | | | | | |
| 24 nm | 28 | 22 | 44 | 79 | 16 | 57 |
| 32 nm | 16 | 12 | 16 | 66 | 0 | 54 |
| 40 nm | 12 | 25 | 13 | 54 | 1 | 29 |
| 49 nm | 9 | 42 | 9 | 45 | 0 | 3 |
| 57 nm | 10 | 24 | 12 | 28 | 2 | 4 |

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Storage

XD 4761 can be stored for up to 1 year at 6 - 18 $^{\circ}$ C in the original sealed containers. The expiry date is indicated on the label.

Handling precautions

Caution

Our products are generally quite harmless to handle provided that certain precautions normally taken when handling chemicals are observed. The uncured materials must not, for instance, be allowed to come into contact with foodstuffs or food utensils, and measures should be taken to prevent the uncured materials from coming in contact with the skin, since people with particularly sensitive skin may be affected. The wearing of impervious rubber or plastic gloves will normally be necessary; likewise the use of eye protection. The skin should be thoroughly cleansed at the end of each working period by washing with soap and warm water. The use of solvents is to be avoided. Disposable paper - not cloth towels - should be used to dry the skin. Adequate ventilation of the working area is recommended. These precautions are described in greater detail in the Material Safety Data sheets for the individual products and should be referred to for fuller information.

Huntsman Advanced Materials

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