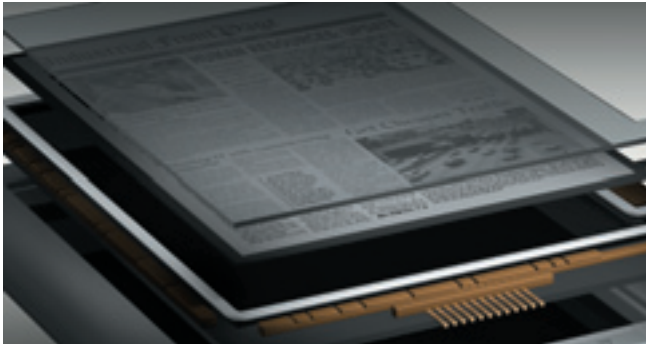


SELECTOR GUIDE

ADHESIVES FOR FLAT PANEL DISPLAYS

Adhesives for Flat Panel Displays

Moisture Barrier Sealants for Electronic Paper Displays



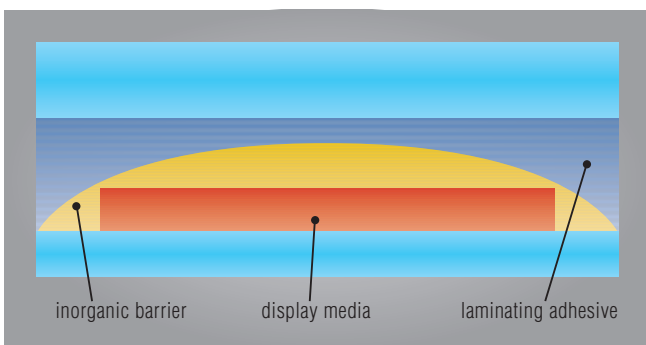
Feature	Benefit
One component material	No mixing, ready to use
Permeation rate 5-8 g.mil/100 in ² .day	Extended display lifetime Reduced field failures
Thermal cure	No uncured UV material in shadow areas
Cures in 10 min @ 70°C	Reduced cycle time (batch cure) No damage to the electronic paper

Moisture Barrier Sealants for OLED Displays



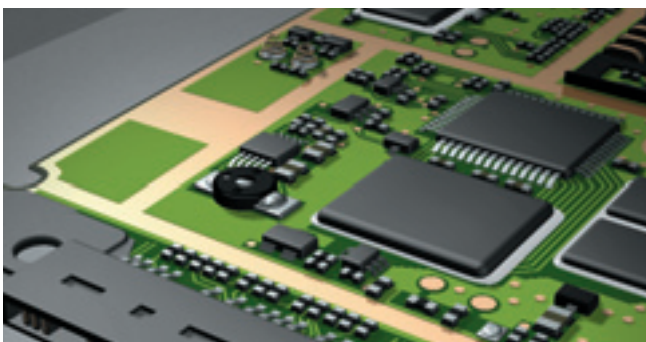
Feature	Benefit
Low water permeation	Longer display life
Fast UV cure without thermal post-cure	Reduced processing time and cost
Long work life	Consistent production process

Flexible Laminating Adhesives



Feature	Benefit
Low modulus	High flexibility
Low outgassing during cure	No damage to display media
Excellent moisture barrier properties	Compensate for pinhole deficiencies in inorganic barrier layer
Transparent	Suitable for top emission AMOLEDs
UV or low temperature thermal cure	Possible to cure during lamination

Electrically Conductive Adhesives



Feature	Benefit
One component materials	No mixing, ready to use
Stable electrical contact on Sn, SnPb and OSP coated Cu substrates	Reliable electrical connection
Low temperature cure (as of 70°C)	Use of temperature sensitive substrates
Very fast cure possible as of 100°C	High throughput production process

SELECTOR GUIDE

Product	Appearance After Cure	Viscosity Range Pa.s @ 15 s-1	Cure Range	Moisture Permeability g.mil/100 in ² .day	Achievable Bondline (µm)	Storage Conditions @ -40°C	Work Life @ RT	Application
ECCOSEAL™ 7200	Beige	2 - 2.7	10 min @ 70°C	6 - 9	100	6 months	12 h	Rigid
XE 80284	Transparent	0.13	1 h @ 70°C or 2 h @ 55°C	8	NA (Unfilled)	3 months	5 h	Semi-flexible

Product	Appearance After Cure	Minimum Achievable Bondline Thickness	Viscosity Range Pa.s @ 15 s-1	Cure Range J/cm ²	Moisture Permeability Range g.mil/100 in ² .day	Storage Conditions @ 5°C	Work Life @ RT	Application
XUV 80260	Beige	25 µm	15 - 25	6	3.0	6 months	1 month	Rigid
XUV 80252-1	Beige	10 µm	15 - 25	6	3.0	6 months	1 month	Rigid
XUV 80277-5 M	Translucent	10 µm	50 - 60	6	3.0	6 months	1 month	Rigid
XUV 80276	Transparent	Unfilled	0.5	6	4.0 - 5.0	6 months	1 month	Semi-flexible

Product	Type	Appearance After Cure	Viscosity Range Pa.s @ 15 s-1	Cure	Moisture Permeability g.mil/100 in ² .day	Storage Conditions	Work Life @ RT
XUV 80300-2	Liquid	Transparent	164 (RT)	UV cure 2 J/cm ²	20	6 months @ 5°C	1 week
XUV 80303	Liquid	Transparent	10 - 15	UV cure 2 J/cm ²	8.5	6 months @ 5°C	1 week
XA 3552	Liquid	Transparent	15	Thermally during lamination : 5 s @ 120°C	25	6 months @ -20°C	24 h

Product	Viscosity (Pa.s)	Volume Resistivity (Ohm.cm)	Typical Cure Temperature And Time	Work Life @ 25°C	E-Modulus @ 25°C (MPa)	Glass Transition Temperature (°C)	Unique Features
CE 3103 WLV	15 - 25	8 x 10 ⁻⁴	10 min @ 120°C 3 min @ 150°C	3 days	4500 (Rigid)	114	Fast cure, stable electrical contact on Sn, SnPb and OSP coated Cu
XCA 3556 HF	30 - 40	7 x 10 ⁻⁴	1.5 min @ 80°C < 30 s @ 110°C	24 h	650 (Flexible)	65	Very fast cure, flexibility, very good peel strength
XCE 3111	20 - 30	5 x 10 ⁻⁴	< 30 s @ 110°C	24 h	4100 (Rigid)	90	Very fast cure
CA 3150	13	3 x 10 ⁻⁴	10 s @ 130°C	48 h	6800 (Rigid)	55	Cures in seconds, suitable for Aluminum substrates




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