

DOWSIL™ VE-8001 Flexible Silicone Adhesive

Application and target devices

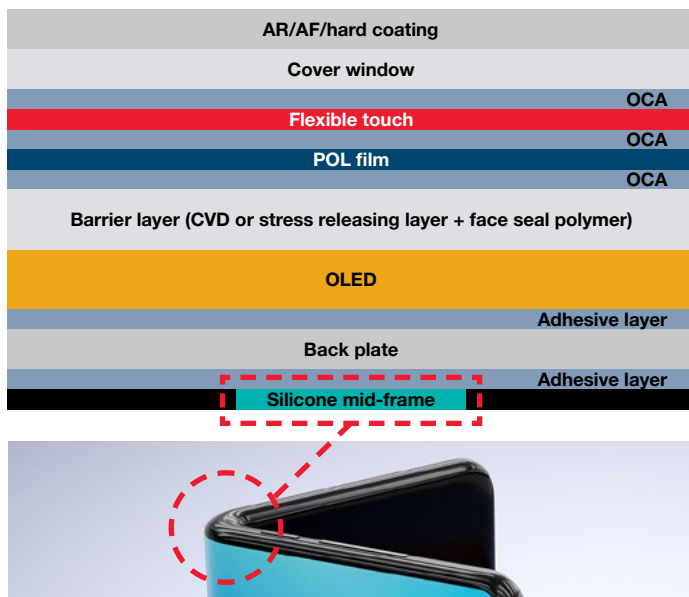
- **Application:** Elastic hinge adhesive solution for flexible OLED displays
- **Target device:** Foldable and rollable consumer devices



Description

DOWSIL™ VE-8100 Flexible Silicone Adhesive is a two-part elastic silicone adhesive based on heat cure, which provides stable mechanical properties after the dynamic and static folding test for foldable and roll-able display devices. This product can be cured at lower temperatures (80°C for 30 min for 300 um thickness) to reach the target properties. Higher tensile strength and appropriate elongation help to control the stress neutral line for the device folding test.

Application structure



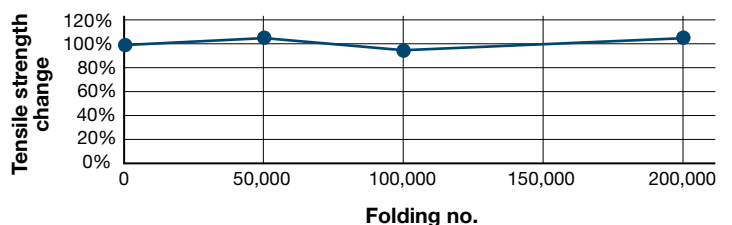
Key features and benefits

Basic properties

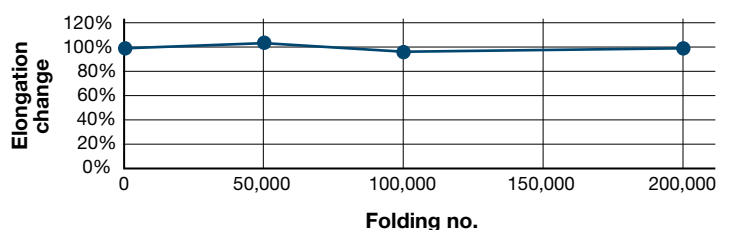
DOWSIL™ VE-8001 Flexible Silicone Adhesive	
A/B mixing ratio	1:1 wt%
Viscosity	10,000-15,000 cP
Color	Black
Cure condition	80°C for 1 hour at 0.3 mmT
Pot life	12 hours at room temperature
Hardness	Shore A 85
Specific gravity	1.01 g/cm ³
Elongation	40%
Tensile strength	12 MPa
Linear CTE	250 ppm/°C
Lap shear strength	>850 psi & >5.86MPa (SUS to SUS 25mm x 10mm x 0.5mmT)

- Stable mechanical properties after the dynamic and static folding test
- Appropriate tensile strength and elongation for small folding radius
- Low temperature cure (80°C for 30 minutes at 300 um thickness)
- Long working time at room temperature (12 hours)

Tensile strength change



Elongation change





Learn more

We bring more than just an industry-leading portfolio of advanced silicone-based materials. As your dedicated innovation leader, we bring proven process and application expertise, a network of technical experts, a reliable global supply base, and world-class customer service.

To find out how we can support your applications, visit [dow.com/electronics](https://www.dow.com/electronics).



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