

Optical Elastic Resin (SVR)

Optical bonding resin that reduces reflection of light inside of flat and curved displays

Product Name SVR6000 HSVR700

Features



- Replaces air gap of a display with optical lamination using optically clear resin (OCR)
- Decreases reflection and improves contrast due to controlled refractive index
- Enhances stiffness of the whole module required for thinner display panels design

Applications

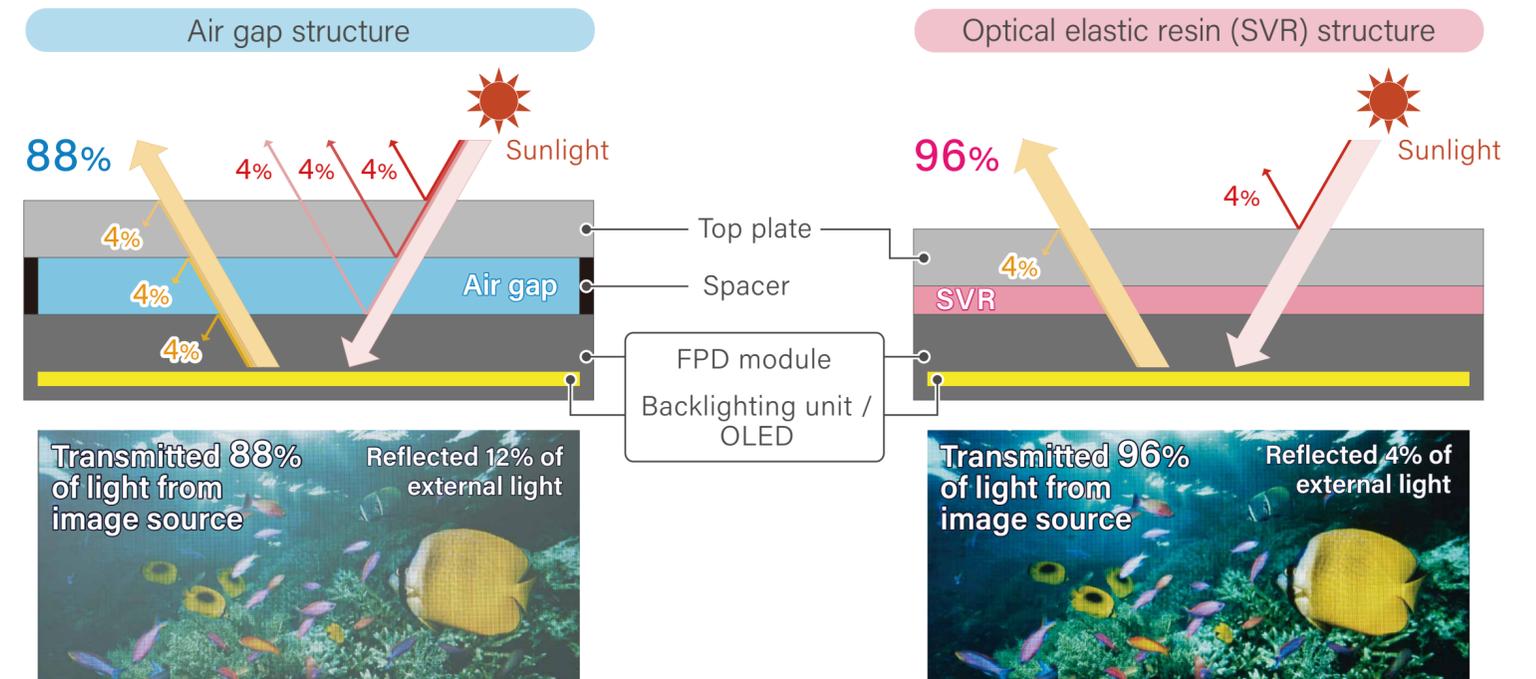
Suitable for center information displays, instrument clusters, mirror displays

Center information displays



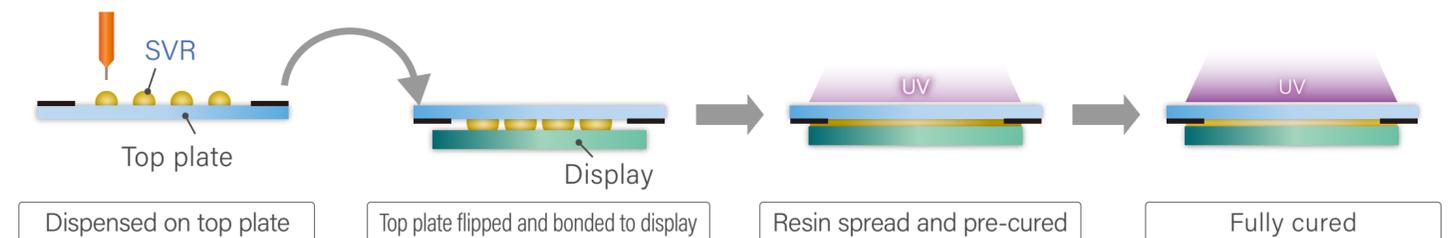
Optical elastic resin (SVR) or Optical elastic resin (SVR) Hybrid type

Difference between the air gap structure and the SVR structure

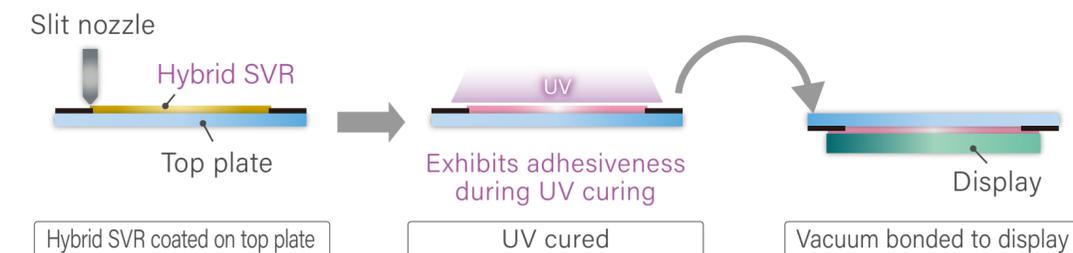


Comparison of lamination processes

Optical elastic resin (SVR)



Optical elastic resin (SVR) Hybrid type



Optical elastic resin (SVR) Hybrid type is suitable for slit coating of controllable thickness of different LOCA viscosities. The resin does not ooze out of the panel edges during UV curing process and offers workability equivalent to OCA's.

Specifications

SVR®

HYBRID
SVR®

Item name	unit	SVR6000	HSVR700
Cure condition	mJ/cm ²	≥2,000 * ⁵	≥12,000 * ⁶ One time curing
Viscosity * ¹	mPa·s	3,300	5,000
Hardness * ²		E12	E14
Refractive index * ³		1.46	1.48
Elastic modulus * ⁴	MPa	0.7	1.0
Storage temperature	°C	10 - 30	10 - 30

*1 : Rheo-meter @25°C

*2 : Durometer (Code E)

*3 : Abbe @25°C, D-line (589nm)

*4 : DMS method @1Hz (25°C)

*5 : Metal-halide lamp

*6 : LED 365nm

Dexerials America Corporation

TEL: +1-586-596-4076

<https://www.dexerials.jp/en/>

Product data described here are based on company evaluation results and are not to be used for specification purposes. Dexerials makes no warranty, representation or guarantee regarding the product data or suitability of the product for any particular purpose. It is essential to evaluate the product to determine whether it fits for a particular purpose and suitable for the user's method or application.

The document was created in September 2021.