



**KEEP A CLEAR VIEW**

**Work with Abatek**

## You can expect more of your Display

Abatek offers a comprehensive portfolio of products to enhance your Display solution.

1. Display cover glass
2. Seals
3. Thermal Pads
4. Light Guides
5. SMT - Spacer-Damper
6. Polyform – the gapless HMI surface

### 1. Display cover glass

For 2D glass covers Abatek offers customized glass to fit your design. We provide all added value solutions like printing, hardening and “Anti-treatments” like: **Anti-Reflection (AR)**, **Anti-Glare (AG)**, etc.

For 3D applications Abatek develops Pantaglass. Please see [www.pantaglass.com](http://www.pantaglass.com).



Display cover

### 2. Seals

This important component for the reliable functionality is offered by Abatek in a wide range of materials, sizes, shapes and sealing design. Abatek offers In-House material development to fulfill requirements.

Our materials guarantee best compression set for sealing purposes. In addition the material composition can be modified to improve thermal management or make it electrically conductive.

Specialty: Light reflective seals



Display seals for different sizes

### 3. Thermal Pad

Customized Thermal Pads in silicone or acrylic material with typical parameters of:

- Thickness: 0,3 to 8,0 mm
- Hardness:  $\geq 30$ Shore A
- Thermal conductivity:  $\leq 5$  K/m.k.

Thermal Pad adds additional support like damping vibration and has good dielectric properties.



## 4. Light Guides

Silicone light guides or thin sheets enable good homogeneous lighting with fewer LED's and allow special effects.  
Thermally stable with a light transmission >92%.



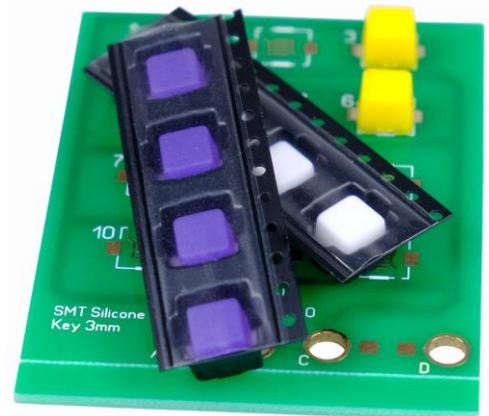
Demo sample Light Guide Silicone

## 5. SMT-Space-Damper

SMT assembly of custom made Spacers and Dampers.  
Applied between glass and electronics, PCB to PCB, PCB and housing, etc.  
Custom design and material delivered in Tape & Reel for automatic assembly.

In addition it can be made electrically conductive - i.e. connector, capacitive air gap killer- or thermally conductive.

Can be shaped as light diffuser and for lens.



SMT Damper-Spacer assembled and in Tape & Reel

## 6. Polyform – Gapless 3D HMI-Surface

The new gapless **H**uman **M**achine Interface - HMI - technology that generates a customized 2D or 3D shaped panel.  
This top quality surface - developed by Abatek - is the perfect HMI for your display.  
It supports all functions like capacitive or click feel and solutions like black panel, functional- and status lighting.  
Due to 3D shape and all types of surface structures, i.e. matt, glossy, wood, brushed, carbon, two different next to each other, you can make mesmerizing designs and guide finger and eye.

Can be made from self healing material for rough environments.



HMI in gapless Polyform below screen

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- Tokyo, Japan
- Cikarang, Indonesia

