Light-Curable Adhesives Designed with Skin Sensitivity in Mind

Assemble Wearable Medical Devices Without Materials of Concern

Dymax 2000-MW series of adhesives are designed for the assembly of wearable medical devices where materials of concern and proximity to skin matter. These products are formulated without IBOA and TPO, and pass ISO 10993-5 for cytotoxicity, as well as ISO 10993-10 for sensitization and irritation. 2000-MW series adhesives enhance the reliability of your wearable medical devices with their exceptional bond strength and dependable performance against moisture and thermal shock. They are engineered to provide strong bonds to a variety of substrates commonly used in the production of medical devices and deliver excellent performance when used with difficult-to-bond substrates. 2000-MW adhesives cure in seconds with light, and are optimized to cure with UV LED light. Additionally, some adhesives are formulated with fluorescing technology for quick and easy post-cure bond-line inspection.
## Applicable Devices

- Medical smart monitoring devices
- Patient monitoring devices
- Large volume injectors
- Vital sign monitoring devices
- Hearing aids
- Continuous glucose monitors
- Diabetes care devices
- Pain management devices
- Sleep monitoring devices
### Application Areas

Dymax adhesives for wearable medical device assembly can be used in a number of applications throughout the device, such as:

1. Electronics Encapsulation
2. Needle-to-Hub Bonding
3. Edgebond
4. Battery Reinforcement
5. Wire and Flex Tacking
6. Assembly Bonding

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#### Table: 2000-MW Series Adhesives

<table>
<thead>
<tr>
<th>Product</th>
<th>ABS acrylonitrile-butadiene-styrene</th>
<th>CER ceramic</th>
<th>CIP cellulose acetate propionate</th>
<th>CR polycarbonate</th>
<th>PC poly(methyl methacrylate)</th>
<th>PMMA poly(methyl methacrylate)</th>
<th>PET poly(ethylene terephthalate)</th>
<th>PETG poly(ethylene terephthalate) glycol</th>
<th>PES polyether sulfone</th>
<th>PI polyimide</th>
<th>PPS poly(phenylene sulfone)</th>
<th>PSU polysulfone</th>
<th>TPU thermoplastic polyurethane</th>
<th>CER ceramic</th>
<th>GL glass: borosilicate, quartz, mica laminate</th>
<th>AL aluminum</th>
<th>BR brass</th>
<th>Ni-Plated SS</th>
<th>SS stainless steel</th>
<th>PCB printed circuit board</th>
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- • Recommended adhesive
- ○ Limited applications
Our Commitment to Greener, Safer Manufacturing

Dymax is committed to green manufacturing that reduces environmental impact, conserves energy, and provides greater worker safety. Over the last 40 years, our light-curable materials and curing equipment have become the industry standard for fast, environmentally conscious assembly. Dymax products are readily replacing technologies that contain hazardous ingredients, produce waste, or require higher amounts of energy to process.

- Eco-friendly, one-component materials
- Materials without solvents and other materials of concern for improved worker and user safety
- Fast curing products and equipment designed for less energy consumption
- Dymax products conform to regulatory standards like RoHS and REACH