Dymax 2000-MW Series UV Adhesives for Wearable Medical Devices

Description

The **Dymax 2000-MW series** of wearable device adhesives cure on exposure to UV and/or visible light in seconds, enabling faster processes, greater output and lower processing costs. All adhesives in the range are compliant with ISO 10993-5 for cytotoxicity, with some grades available that also meet ISO10993-10 for sensitisation and irritation.

The **Dymax 2000-MW series** is the first dedicated, light curable adhesive product line specifically formulated without materials of concern and common skin irritants to address **medical wearables applications**. These first-in-class biocompatible adhesives were developed to address changing customer requirements and rapidly evolving trends in the wearable device market. Developed without isobornyl acrylate (IBOA), a common skin irritant.

The series of adhesives produce strong bonds and dependable performance against moisture and thermal shock. Made of 100% solids ensures no solvents are released during application and curing, eliminating the need for solvent handling, while enhancing worker safety and minimising environmental impact.

In-line inspection is made possible with Ultra-Red® fluorescing formulations for an easy, clear process validation. Materials are designed for applications including structural bonding, encapsulating or coating medical wearable electronic components.

Features & Benefits

Dymax 2000-MW Series UV Adhesives for Wearable Medical Devices

Formulated without IBOA

- Compliant to ISO 10993-5 for cytotoxicity
- ISO 10993-10 grades are available for sensitization and irritation
- Cures on demand, in seconds, with UV and/or visible light
- 100% solids, 100% solvent-free, single-part materials
- Ultra-Red® fluorescing formulations for easy, clear process validation

Applications

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Electronics encapsulation

- Needle-to-hub bonding
- Edgebonding
- Battery reinforcement
- Wire and flex tacking
- Assembly bonding

Adhesive	Typical application	Substrates

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Dymax 2101-MW-UR DYM2101-MW-UR	Dymax 2101-MW-UR is a medium viscosity light cure adhesive that bonds using LED or broad spectrum UV light. The material uses Ultra-Red® fluorescing for simple in-line inspection of UV curing materials. The medical adhesive forms a highly reliable bond to many plastics such as ABS, PC, PCTG, PETG, PVC, and TPU. This makes it an ideal substance to test for the assembly of medical smart devices, patient monitoring devices, large volume injectors or diabetes care devices.	ABS, PC, PCTG, PETG, PVC, TPU

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Dymax 2022-MW DYM2022-MW	Dymax 2022-MW is a versatile general bonding adhesive, coating, and encapsulant with low water absorption and minimized water ingression. It offers extremely low water absorption of 0.5% making it ideal for the assembly or encapsulation of electronic wearable medical device components. Dymax 2022-MW is recommended for use as a coating or encapsulant on RFID chips or sensors housing assemblies, and single- or multi-use medical devices where moisture ingression is a concern. It bonds well to stainless steel, aluminum, glass, and printed circuit boards.	ABS, PC, PETG, Al, SS, Al, Glass, FR-4

Dymax 2000-MW Series UV Adhesives for Wearable Medical Devices

Safety Data Sheets
For the latest SDS for this product, please e-mail msds@intertronics.co.uk

Ordering Information

Dymax 2000-MW Series UV Adhesives for Wearable Medical Devices

01865

842842

orders@intertronics.co.uk

- Name*
- Company*
- Phone*
- Email*
- Post code*

If you're in the UK, knowing your postcode would help us get in touch even more quickly. If you're outside the UK, please indicate your country.

- Tell us about your application

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