



Light-Curable Adhesives Designed with Skin Sensitivity in Mind

Assemble Wearable Medical Devices Without Materials of Concern

- Pass ISO 10993-5 for cytotoxicity
- Grades available that pass ISO 10993-10 for sensitization and irritation
- Formulated without IBOA and TPO
- Compatible with common and difficult-to-bond substrates, including PC, PI, PVC, TPU, & SS
- Optimized for LED light curing
- Moisture and thermal shock resistant
- Fluorescing grades available

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. Adhesives that pass ISO 10993-10 for sensitization and irritation are also available. 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.

Products

Product	Features	Cure Mechanism	Nominal Viscosity, mPas	Durometer Hardness	Water Absorption, % (25°C, 24h)	Tensile at Break, MPa [psi]	Modulus of Elasticity, MPa [psi]	10993-5 Cytotoxicity	10993-10 Irritation	10993-10 Sensitization	IBOA free	TPO free
2021-MW*	Ideal for general bonding of medical wearables; adhesion to a variety of substrates including difficult-to-bond materials; recommended for PC, PI, Ni-Plated SS, and SS	UV broad spectrum; UV LED 405 nm	9.000	D75	2,5	29 [4.200]	917 [133.000]	•	•	•	•	•
2022-MW	Ideal for general bonding, encapsulation, and coating; low water absorption	UV broad spectrum; UV LED 365 nm	700	D60	0,5	18.6 [2.700]	668,8 [97.000]	•	**	**	•	•
2101-MW-UR	Ideal for general bonding of medical wearables; adhesion to a variety of substrates including PC, PVC, TPU; Ultra-Red® fluorescing	UV broad spectrum; UV LED 405 nm	5.500	D80	2,1	24,8 [3.600]	1.020,4 [148.000]	•	•	•	•	•

* 2021-MW is currently available in limited release and is only available for sampling.

** Testing in process

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



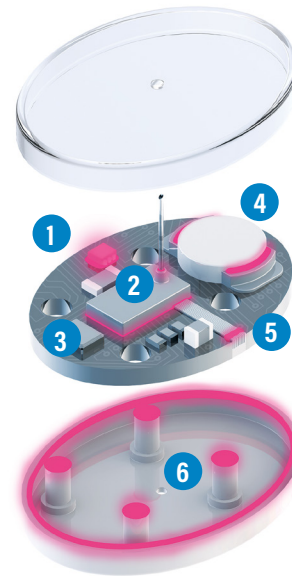
Product	ABS acrylonitrile-butadiene-styrene	CAP cellulose acetate propionate	PA polyamide	PC polycarbonate	PCTG poly(cyclohexylene dimethylene terephthalate)glycol	PEBA poly(ether block amide)	PEEK poly(etheretherketone)	PEI poly(etherimide)	PET poly(ethylene terephthalate)	PETG poly(ethylene terephthalate)glycol	PI polyimide	PMMA poly(methyl methacrylate)	PPO poly(phenylene oxide)	PS polystyrene	PSU polysulfone	PVC poly(vinyl chloride)	SAN styrene-acrylonitrile	TPU thermoplastic polyurethane	CER ceramic	GL glass: borosilicate, quartz, mica	FR4 glass-reinforced epoxy resin laminate	AL aluminum	BR brass	CRS cold rolled steel	CU copper	NI-Plated SS	SS stainless steel	PCB printed circuit board
2021-MW	•	•	m	•	•	m	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	m
2022-MW	•	m		•	•						m	•	•	m			•	m		•		•	•				•	
2101-MW-UR	•			•	•			m		•			m				•	•		m	m							

• Recommended adhesive m Limited applications

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



Technology Consultative Services

Application Engineering and R&D groups guide customers in the selection of the best combination of material, equipment, and process parameters for the most efficient and robust assembly process. When required, our dedicated experts can assist with product testing in our labs.

Dymax partners with machine builders and can put our customers in direct contact with them to support their individual production line set up.



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