Light-Curable Adhesives Designed with Skin Sensitivity in Mind

Assemble Wearable Consumer Electronic Devices Without Materials of Concern

- Formulated without potential skin sensitizers like IBOA, or other materials of concern
- Wide product range that includes materials for encapsulation, optical positioning, sealing, bonding, and general assembly
- UV curable in seconds for increased throughput and efficiency
- Materials available with secondary moisture cure for shadow areas
- Fluorescing grades available for easy bond line inspection

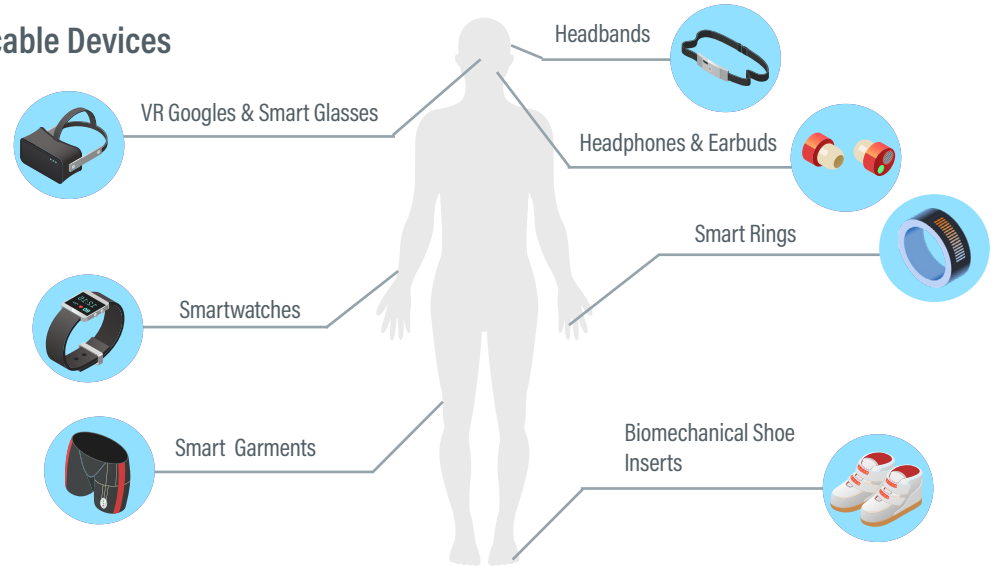
Dymax 9200-W series adhesives are designed for the assembly of wearable consumer (non medical) electronic devices where materials of concern and proximity to skin matter. We have intentionally removed potential skin sensitizers like IBOA (isobornyl acrylate) or materials of concern to make our materials wearable-friendly without compromising trusted quality and high performance.

Dymax is committed to supporting our customers with mass production friendly solutions that enhance the reliability of their wearable devices. 9200-W series adhesives are engineered to deliver exceptional bond strength and dependable performance when used in the production of consumer wearable devices like fitness trackers, smart watches, headphones, ear buds, and AR/VR headsets or glasses. They cure in seconds with UV light for increased throughput and efficiency and some products are available with secondary moisture cure for applications where shadow areas are a concern. Additionally, some adhesives are formulated with fluorescing technology for quick and easy post-cure bond-line inspection.

Products

Product Number	Features	Cure Mechanism	Substrates	Viscosity, cP	Durometer Hardness	Water Absorption, % (25°C, 24h)	Tensile at Break, MPa [psi]	Modulus of Elasticity, MPa [psi]
9201-W	IBOA-free encapsulant; moisture, thermal, and impact resistance; ideal for chip on board, chip on flex, or wire bond encapsulation; excellent component protection against chemical or environmental exposure; halogen free	UV broad spectrum; UV LED 365 nm; Moisture cure	ABS, FR4, PA, PI, PET, TPU	32,000	D20-D40	0.13	11.1 [1,614]	322 [46,790]
9202-W	IBOA-free positioning adhesive; low shrinkage and outgassing; moisture resistance; low CTE; designed for optical alignment and lens positioning	UV broad spectrum; UV LED 405 nm;	PC, PET, PMMA, Glass, SS	260,000	D88	0.14	35.9 [5,200]	4,214 [611,150]
9208-W	Flexible electronics coating; blue fluorescing; thermal shock and corrosion resistance; temperature/humidity performance; halogen free	UV broad spectrum; UV LED 365 nm; Moisture cure	PCB, ABS, Glass, PA6, Leadframe, Nitinol	980	A75	1.3	9.6 [1,400]	213.7 [31,000]
9209-W	IBOA-free encapsulant; room-temperture reworkable; moisture, thermal, and impact resistance; high thixotropic index	UV broad spectrum; UV LED 365 nm; UV LED 405 nm; Moisture cure	PA, PC, PS, CAP, ABS, SAN	62,000	D38	1.0	8.9 [1300]	48.9 [7,100]
9210-W	IBOA-free encapsulant; moisture resistance; great reliability testing performance; ideal for component encapsulation, FPC reinforcement, & selective protection	UV broad spectrum; Moisture cure	FR4, PA, PI	29,000	D55-D75	0.13	15.3 [2,222]	561 [81,369]
9211-W	IBOA-free plastic bonder; low stress; ideal for CCM barrel and holder assembly; adheres to a wide range of plastics	UV broad spectrum	ABS, FR4, LCP, PA6, PC, PET, PETG, PI, PU, TPU	20,000	D63	2.98	16.4 [2,378]	700 [101,540]

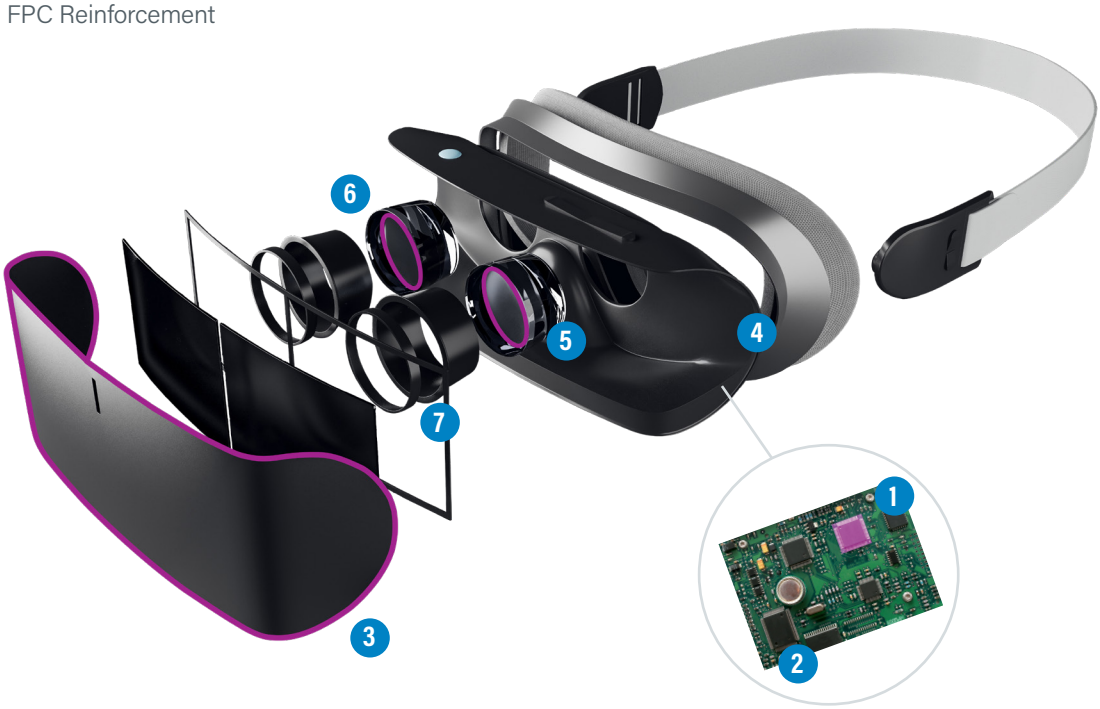
Applicable Devices



Application Areas

Dymax 9200-W series adhesives can be used in a number of applications throughout the device, such as:

1. Sensor or Component Encapsulation
2. Selective Coating or Environmental Protection
3. Assembly & Sealing Enclosures
4. FPC Reinforcement
5. Optical Positioning
6. Lens Alignment
7. Structural Bonding



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 with no added solvents for improved worker and user safety

Fast curing products and equipment designed for less energy consumption

Dymax meets global statutory and regulatory requirements

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