



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.

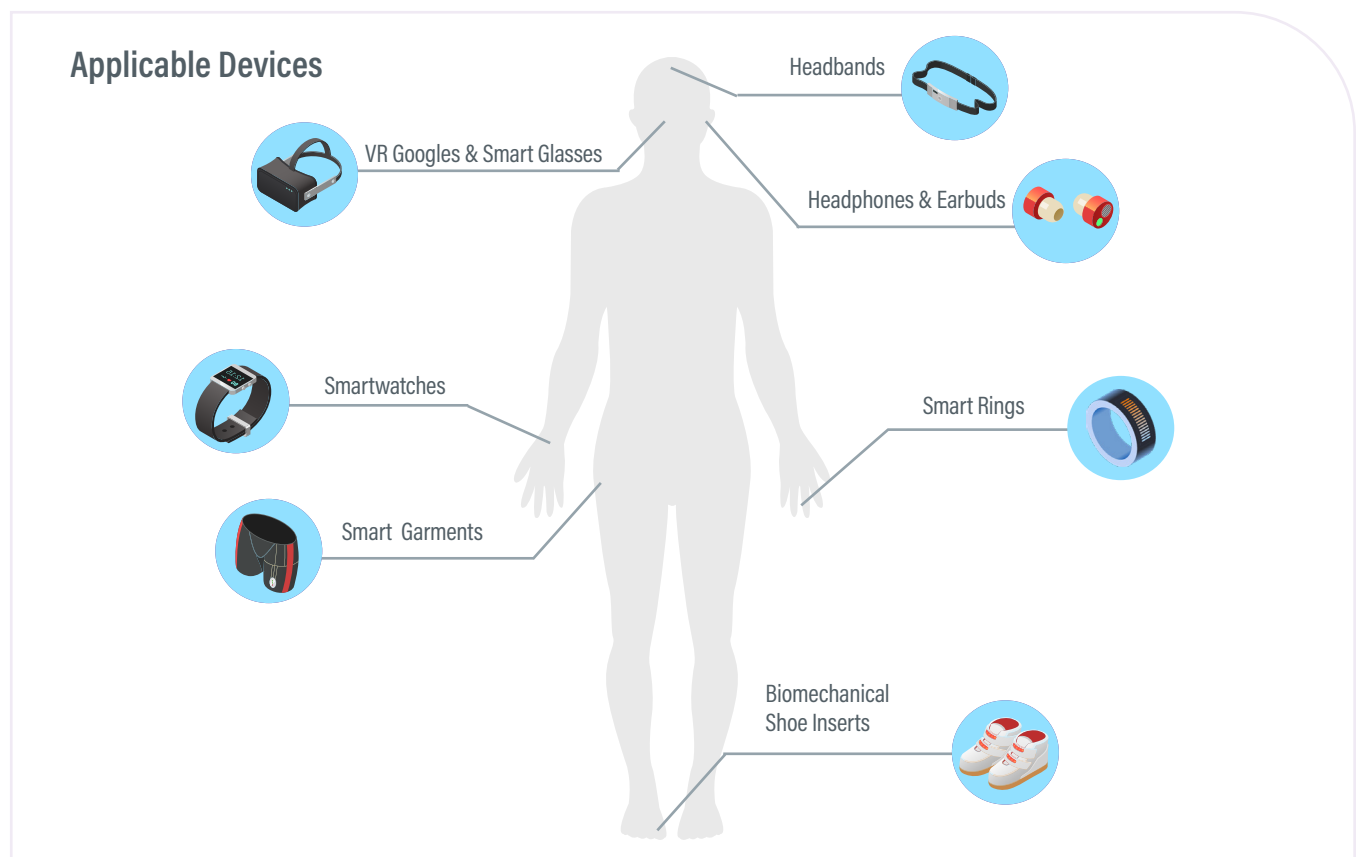
Dymax is committed to supporting our customers with mass production friendly solutions that enhance the reliability of their wearable devices. 9200-W series adhesives are engineered to deliver exceptional bond strength and dependable performance when used in the production of consumer wearable devices 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	200,000	D82	0.14	35.9 [5,200]	4,214 [611,150]
9204-W*	Low-stress, IBOA-free plastic bonder; low shrinkage; high viscosity; ideal for bonding and sealing	UV broad spectrum	LCP, PC, PS, Silicone	30,000	A85	11.13	0.079 [11.36]	4.88 [709]
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	35,000	D55-D75	0.13	15.3 [2,222]	561 [81,369]
9211-W	Low stress, IBOA-free plastic bonder; 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]

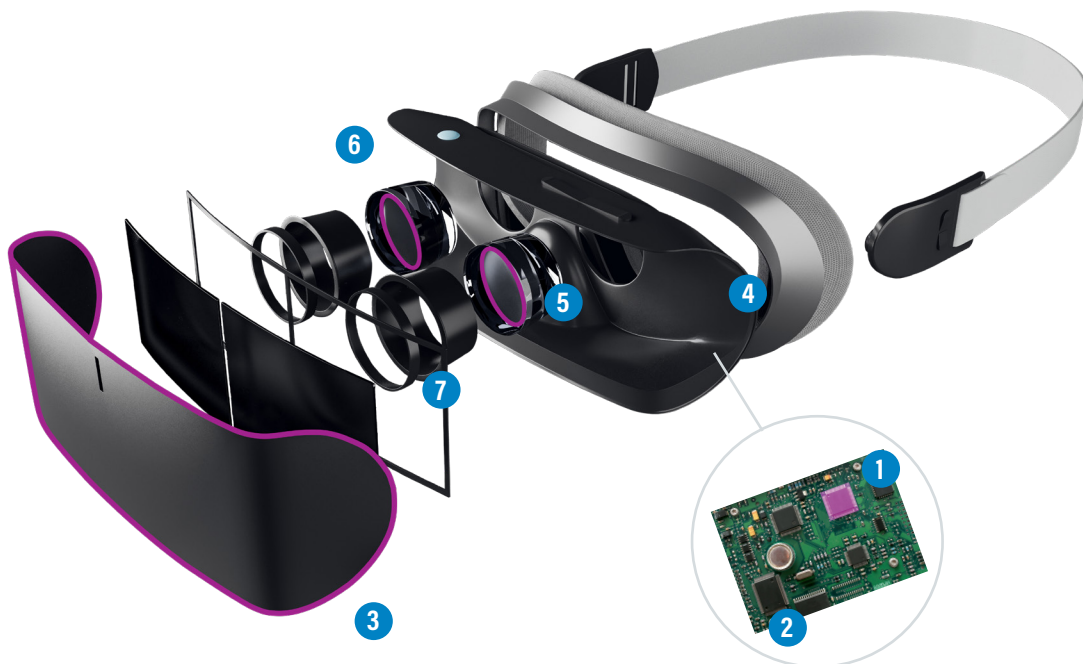
*This material is not available in the United States or Europe



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





www.dymax.com

©2021-2023 Dymax Corporation. All rights reserved. All trademarks in this guide, except where noted, are the property of, or used under license by, Dymax Corporation, U.S.A.

Technical data provided is of a general nature and is based on laboratory test conditions. Dymax does not warrant the data contained in this bulletin. Any warranty applicable to the product, its application and use is strictly limited to that contained in Dymax standard Conditions of Sale published on our website. Dymax does not assume responsibility for test or performance results obtained by users. It is the user's responsibility to determine the suitability for the product application and purposes and the suitability for use in the user's intended manufacturing apparatus and methods. The user should adopt such precautions and use guidelines as may be reasonably advisable or necessary for the protection of property and persons. Nothing in this communication shall act as a representation that the product use or application will not infringe on a patent owned by someone other than Dymax or act as a grant of license under any Dymax Corporation Patent. Dymax recommends that each user adequately test its proposed use and application before actual repetitive use, using the data in this communication as a general guideline. **AB013DA 3/7/2023**