

특징 및 이점

- 💧 필요 시 경화
- 💧 PET 접착에 이상적
- 💧 100% 고형분, 무용제

설명

PERMABOND® UV6363은 자외선 노출 시 빠르게 경화하는 접착제입니다. 퍼마본드 UV6363은 FRP와 같은 복합재에 아크릴 소재를 라미네이팅하는 데 적합합니다. 특히 PET와 같이 접합이 어려운 플라스틱 기판에 사용하기 적합합니다. UV6363은 유연성과 연신 특성으로 인해 박리 및 절단 응력에 대한 내성이 우수합니다.

미경화 접착제의 물리적 특성

화학 조성	메타크릴레이트 에스테르
외관(색상)	무색, 투명
점도 @ 25°C	20rpm: 2,000-5,000 mPa.s (<i>cP</i>) 2.5rpm: 10,000-20,000 mPa.s (<i>cP</i>)
비중	1.1

대표적인 경화 특성

대표적인 고정 시간 (PET)*	저전력 4mW/cm ² 배터리 램프: 25초 LED 100mW/cm ² lamp: 10초 UV light guide 30W/cm ² : 5초
경화 파장	365 - 420 nm**

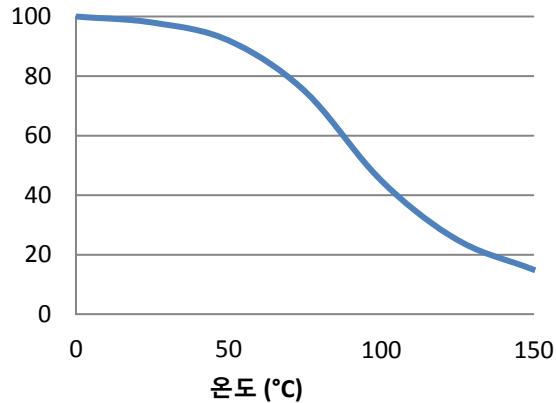
*The cure time depends on the power of the UV lamp, its spectral output, the distance between the lamp and the components, and the transmission characteristics of the substrates.

**LED UV 램프는 스펙트럼 출력 범위가 좁습니다. 최적의 접착력을 얻기 위해서, LED 램프의 피크 파장과 접착제 광개시제의 파장이 일치하는 제품을 선정하시기 바랍니다. 퍼마본드 제품과의 적합성을 확인하는 것이 중요합니다.

경화된 접착제의 대표적인 성능

오버랩 전단 강도 (ISO4587)	Plexiglass: >1 N/mm ² (<i>>145 psi</i>) PET: >1 N/mm ² (<i>>145 psi</i>)
인장 강도 (DIN53504)	0.3-0.5 N/mm ² (<i>45-75 psi</i>)
굴절률	>1.490
파단 시 연신율 (DIN53504)	>250%
경도 (ISO868)	40-60 Shore A

고온 강도



"Hot strength" shear strength tests performed on glass to mild steel. Fully cured specimens conditioned to pull temperature for 30 minutes before testing at temperature.

UV6363 can withstand higher temperatures for brief periods (such as for paint baking and wave soldering processes) providing the joint is not unduly stressed. The minimum temperature the cured adhesive can be exposed to is -55°C (-67°F) depending on the materials being bonded.

The information given and the recommendations made herein are based on our research and are believed to be accurate but no guarantee of their accuracy is made. In every case we urge and recommend that purchasers before using any product in full-scale production make their own tests to determine to their own satisfaction whether the product is of acceptable quality and is suitable for their particular purpose under their own operating conditions. THE PRODUCTS DISCLOSED HEREIN ARE SOLD WITHOUT ANY WARRANTY AS TO MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR ANY OTHER WARRANTY, EXPRESS OR IMPLIED.

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추가 정보

This product is not recommended for use in contact with strong oxidizing materials. Information regarding the safe handling of this material may be obtained from the Safety Data Sheet. Users are reminded that all materials, whether innocuous or not, should be handled in accordance with the principles of good industrial hygiene.

표면 처리

접착제 도포 전 피착제 표면은 깨끗하고 건조하며 기름기가 없어야 합니다. 유리 세척용도로 실리콘 기반의 세척제를 사용한다면 특별한 주의가 필요합니다. 알루미늄, 구리 및 구리합금과 같은 일부 금속은 표면의 산화막 제거를 위해 가벼운 사포 처리가 도움이 됩니다. 대부분의 표면에서 기름기 제거를 위해 이소프로판을 (IPA)을 사용할 수 있습니다. 열가소성 플라스틱 소재의 경우 표면에 남아 있는 이형제가 접착 강도에 영향을 미칠 수 있으므로 적합성 테스트를 권장합니다.

사용 방법

- 1) Adhesive can either be applied directly from the bottle or dispensed via automated dispensing equipment for more accurate dosing. Minimise exposure of product to ambient light.
- 2) It is important to try to prevent air entrapment within the joint as this could be detrimental to the finished appearance of the adhesive.
- 3) Parts should be firmly held and not disturbed during cure. Expose the joint to ultra-violet light for the appropriate time to ensure full cure. Cure time depends on the power of the UV lamp, its spectral output, the distance between the lamp and the components, and the transmission characteristics of the substrates*.
- 4) For help selecting a suitable lamp and/or dispensing equipment, please contact the Permabond technical helpline.

* It is recommended to use a high power lamp to achieve maximum peel strength on PET substrate material.

비디오 링크

UV경화 접착제 사용방법:
<https://youtu.be/Y9q0FGFhdvc>



보관 및 취급

보관 온도	5 - 25°C (41 - 77°F)
접착제가 실내 조명에 노출되지 않도록 합니다.	

Other Products Available

Anaerobics

- ✓ Thread lockers ✓ Thread sealants
- ✓ Gasket makers ✓ Sealants / retainers

Cyanoacrylates

- ✓ Instant adhesives
- ✓ For rapid bonding of metals, plastics, rubber and many other materials

Epoxies

- ✓ Two-part room temperature cure adhesives
 - ✓ Single-part heat cure adhesives
- ✓ Modified Technology (MT) flexible grades available

MS-Polymers

- ✓ Single-part, moisture-curing, flexible sealants

Polyurethanes

- ✓ Two-part room temperature curing adhesives

Toughened Acrylics

- ✓ Rapid curing, high strength structural adhesives

UV Light Cured Adhesives

- ✓ Glass / plastic bonding
 - ✓ Optically clear
 - ✓ Non-yellowing

This Technical Datasheet (TDS) offers guideline information and does not constitute a specification.

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