

Technical Data Sheet

FeedBond® EP-28-UES-101-B

UV and Thermal Dual-Curable Adhesive

Description:

FeedBond®EP-28-UES-101-B is a one-component, UV and thermal dual-curable adhesive. After LED light irradiated, the adhesive is in a liquid state and then heat-cured. It has excellent adhesion to LCP and various metals substrates.

| Uncured Properties | Value | Test Description | Method |
|-------------------------|------------------------|--------------------------------|---------|
| Appearance | Light blue transparent | Visual | - |
| Specific Gravity | 1.17 | Pycnometer | FT-P001 |
| Viscosity @25°C (cps) | 15,000~20,000 | Brookfield DV-III/CP-51 @ 5rpm | FT-P006 |
| Thixotropic Index @25°C | 1.2 | 0.5rpm/5rpm | FT-P008 |

Recommend Curing Schedule

Recommend cure condition is >5,000 mJ/cm² (UV LED) + heat-cured at 80°C for 1hr (oven)

Notice: The curing time and energy may vary depending on the light source, substrate, thickness of the adhesive layer, etc. When the ambient temperature of UV curing is too high, the curing speed will be accelerated. It should be test before use.

| Cured Properties | Value | Test Description | Method |
|-------------------------|-------|----------------------|---------|
| Hardness Shore D | 50 | ASTM D-2240, shore D | FT-P037 |
| Water absorption | <4.5% | ASTM D-570 | FT-P032 |
| Curing Shrinkage | <4.0% | Pycnometer | FT-P056 |
| Shear Strength (LCP+Cu) | >8Kg | Dage4000 (0.5x1cm) | FT-M012 |

※ Remarks: This technical data contained herein are intended herein are intended as reference only.

Please contact your local quality department for assistance and recommendations on specifications for this product.

Precautions

1. This product is not suitable for use in pure oxygen and oxygen-rich environments, and cannot be packaged and stored in chlorine gas or other strong oxidizing substances.
2. This product is sensitive to UV and visible light. When storage and handling, keep away from sunlight,

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UV light and artificial lighting as much as possible. The adhered surface should be kept clean, dry, and oil-free.

3. After opening and using, the lid should be tightly closed to avoid moisture, impurities and light etc. affecting the quality. Do not return product into the original container, so as to avoid contamination of unused adhesives.
4. The work life should be evaluated according to the usage conditions. If adhesive has been used for more than 24 hours, it cannot be recyclable, so as not to affect the performance of the adhesive.

Storage

The optimal storage conditions is -20°C sealed and keep away from any light. The shelf life is 6 months.

Note

This information corresponds to our current knowledge on the subject. It is offered solely to provide possible suggestions for your own experimentation. It is not intended, however, to substitute for any testing you may need to conduct and to determine the suitability of our products by yourself for your particular purposes. This information may be subject to revision as new knowledge and experience become available. Since we cannot anticipate all variations in actual end-use conditions, Feedpool makes no warranties and assumes no liability in connection with any use of this information. Nothing in this publication is to be considered as a license to operate under or a recommendation to infringe any patent right.