

Technical Data Sheet

FeedBond® EP-28-UES-142

UV and Thermal Dural-Curable Adhesive

Description:

FeedBond® EP-28-UES-142 is a one-component, UV and thermal dual-curable adhesive. It is mainly used for PPS and Al alloy adhesion with low shrinkage and water resistance.

Uncured Properties	Value	Test Description	Method
Appearance	White liquid	Visual	-
Specific Gravity	1.6	Pycnometer	FT-P001
Viscosity @25°C (cps)	29,000~37,000	Brookfield DV-III/CP-51 @ 5rpm	FT-P006
Thixotropic Index @25°C	3.5~4.5	0.5rpm/5rpm	FT-P008
Shelf life @-20°C	6 months	Unopened and protected from light	FT-P018

Recommend Curing Schedule

Recommend cure condition is >1,200 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. Please test before use.

Cured Properties	Value	Test Description	Method
Hardness Shore D	85	ASTM D-2240, shore D	FT-P037
Water absorption	< 2%	2hrs @100°C	FT-P032
Curing shrinkage	<1.5%	Pycnometer	FT-P056
Glass transition Temp. (Tg)	63°C	TMA	FT-M014
Coefficient of expansion (CTE)			
<Tg	35 ppm/°C	TMA	FT-M016
>Tg	101 ppm/°C		
Share Strength (PPS+Al), kg	>40	Dage 4000	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, UV light and artificial lighting as much as possible. The adhered surface should be kept clean, dry, and oil-free.

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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 dry and cool place in the original packaging , 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.