

ECCOBOND E3526-5

January 2020

PRODUCT DESCRIPTION

ECCOBOND E3526-5 provides the following product characteristics:

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Technology	Ероху			
Appearance	Dark grey paste			
Product Benefits	One component			
	 Bonds to a wide variety of substrates 			
	 Reduced thermal expansion 			
	 No cracking during thermoshocks 			
	 Solvent-free 			
Cure	Heat cure			
Application	Assembly			

ECCOBOND E3526-5 is specially developed for ferrite core bonding applications. It is formulated to have high bond strength when cured at temperatures as low as 100 to 120°C. When used as a potting compound, it is recommended not to exceed a volume of 30 cc to avoid exothermic reaction. ECCOBOND E3526-5 adhesive is the better flowing version of ECCOBOND E3526 adhesive.

TYPICAL PROPERTIES OF UNCURED MATERIAL

Viscosity, Brookfield, mPa·s (cP):	
Spindle 5, speed 5 rpm	25,000
Viscosity @ 10 s ⁻¹ , Rheometer D, mPa·s (cP)	10,000
Density, g/cm³	1.45
Shelf Life:	
@ 0 to 8°C, months	6
@ 25°C, week	1
Flash Point - See SDS	

TYPICAL CURING PERFORMANCE

Cure Schedule

20 minutes gel, 60minutes @ 100°C 5 minutes gel, 20minutes @ 120°C 2 minutes gel, 10minutes @ 150°C

Properties of the cured material will depend upon the cure schedule used.

Avoid exothermal behavior, carefully check if thick sections (>2 cm) and large masses (>30 grams) need to be cured.

The above cure profiles are guideline recommendations. Cure conditions (time and temperature) may vary based on customers' experience and their application requirements, as well as customer curing equipment, oven loading and actual oven temperatures.

TYPICAL PROPERTIES OF CURED MATERIAL

Physical Properties :	
Hardness, Shore D	85
Coefficient of Linear Thermal Expansion, 10-6 K-1:	
Below Tg	60
Above Tg	160
Glass Transition Temperature, °C:	
(Tg) by DMA	145
(Tg) by TMA	120
Young's Modulus:	
@ 50°C N/mm²	1,132
(psi)	(164,182)
@ 100°C N/mm²	947
(psi)	(137,350)
@ 150°C N/mm²	• .
(psi)	(13,633)
@ 200°C N/mm²	
(psi)	(4,786)
Electrical Properties:	

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Volume Resistivity, ohms-cm	>1×10 ⁻¹⁴

TYPICAL PERFORMANCE OF CURED MATERIAL

Tensile Lap Shear Strength:

Aluminum to Aluminum:		
@ 25°C	N/mm ²	9.5
_	(psi)	(1,380)
@ 125°C	N/mm²	8.0
	(psi)	(1,145)
@ 150°C	N/mm²	5.0
	(psi)	(710)
@ 180°C	N/mm²	3.5
	(psi)	(490)
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Polybutylene terephthalate (PBT) to Polybutylene terephthalate (PBT):

@ 25°C	N/mm² (psi)	3.5 (510)
@ 125°C	N/mm² (psi)	` ,
@ 150°C	N/mm² (psi)	2.0 (290)
@ 180°C	N/mm² (psi)	1.0 (160)

GENERAL INFORMATION

For safe handling information on this product, consult the Safety Data Sheet, (SDS).



DIRECTIONS FOR USE

- 1. Allow material to reach ambient temperature before use.
- When using cartridges or syringes, keep material in its original packaging.
- When using other containers, keep container closed until it reaches ambient temperature prior to opening to avoid moisture condensation into the product.

Not for product specifications

The technical data contained herein are intended as reference only. Please contact your local quality department for assistance and recommendations on specifications for this product.

STORAGE:

Store product in the unopened container in a dry location. Storage information may be indicated on the product container labeling.

Optimal Storage: 0 to 25 °C

Material removed from containers may be contaminated during use. Do not return product to the original container. Henkel Corporation cannot assume responsibility for product which has been contaminated or stored under conditions other than those previously indicated. If additional information is required, please contact your local Technical Service Center or Customer Service Representative.

Conversions

(°C x 1.8) + 32 = °F kV/mm x 25.4 = V/mil mm / 25.4 = inches N x 0.225 = lb/F N/mm x 5.71 = lb/in psi x 145 = N/mm² MPa = N/mm² N·m x 8.851 = lb·in N·m x 0.738 = lb·ft N·mm x 0.142 = oz·in mPa·s = cP

Disclaimer

Note:

The information provided in this Technical Data Sheet (TDS) including the recommendations for use and application of the product are based on our knowledge and experience of the product as at the date of this TDS. The product can have a variety of different applications as well as differing application and working conditions in your environment that are beyond our control. Henkel is, therefore, not liable for the suitability of our product for the production processes and conditions in respect of which you use them, as well as the intended applications and results. We strongly recommend that you carry out your own prior trials to confirm such suitability of our product. Any liability in respect of the information in the Technical Data Sheet or any other written or oral recommendation(s) regarding the concerned product is excluded, except if otherwise explicitly agreed and except in relation to death or personal injury caused by our negligence and any liability under any applicable mandatory product liability law.

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Reference 0.1