

LOCTITE ABLESTIK XE 80100

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PRODUCT DESCRIPTION

LOCTITE ABLESTIK XE 80100 provides the following product characteristics:

characteristics.					
Ероху					
Off-white					
One component					
 Non-conductive 					
Low stress					
Solvent-free					
Semi flexible					
 High operating temperature 					
Heat cure					
-45 to +200°C					
Assembly					
Substrate attach and Heat sink bonding					

LOCTITE ABLESTIK XE 80100 is a solventless modified epoxy adhesive that combines low stress with good adhesion on nearly all surfaces and is flexible for mismatched CTE applications. LOCTITE ABLESTIK XE 80100 is the non-conductive version of ECCOBOND CE8500 adhesive.

TYPICAL PROPERTIES OF UNCURED MATERIAL

Viscosity @ 25°C, 10 s ⁻¹ , mPa·s (cP)	12
Density, g/cm³	1.15
Shelf Life @ -25 to -18°C (from date of manufacture), days	183
Flash Point - See SDS	

TYPICAL CURING PERFORMANCE Cure Schedule

90minutes @ 120°C 60minutes @ 150°C 15minutes @ 175°C

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 A		82	
Glass Transition Temperature:			
by DMA , %		59	
by TMA,%		45	
Coefficient of Linear Thermal Expansion,	10 ⁻⁶ K ⁻¹	140	
Young's Modulus:			
@ 25°C	N/mm²	10	
	· · ·	(1,450)	
@ 50°C	N/mm²	-	
	(psi)	(435)	
@ 100°C	N/mm²	2	
	(psi)	(290)	
Extractable Ionic Content, , ppm:			
Chloride (Cl-)		200	

TYPICAL PERFORMANCE OF CURED MATERIAL

Tensile Lap Shear Strength:

Sodium (Na+)

Potassium (K+)

Ammonia (NH3+)

Al to Al:		
@ 25°C	N/mm² (psi)	5.2 (754)
@ 125°C	N/mm² (psi)	0.3 (43.5)
PBT to PBT:		
@ 25°C	N/mm² (psi)	1.6 (232)
@ 125°C	N/mm² (psi)	0.1 (14.5)

GENERAL INFORMATION

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

STORAGE:

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

Optimal Storage: -25 to -18 °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 N/mm x 5.71 = lb/in psi x 145 = N/mm² MPa = N/mm² N·m x 8.851 = lb·ft N·mm 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.

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Reference 1