

LOCTITE ABLESTIK 2035SC

April 2014

PRODUCT DESCRIPTION

LOCTITE ABLESTIK 2035SC provides the following product characteristics:

Technology	Proprietary Hybrid Chemistry		
Appearance	Red		
Cure	Heat cure		
Product Benefits	Non-conductive		
	Single component		
	Fast cure		
	 Low cure temperature 		
	Low stress		
Application	Die attach		
рН	3.7		
Filler Type	Silica		

LOCTITE ABLESTIK 2035SC non-conductive die attach adhesive has been formulated for use in high throughput die attach applications. This material is designed to minimize stress and resulting warpage between dissimilar surfaces.

TYPICAL PROPERTIES OF UNCURED MATERIAL

Thixotropic Index (0.5/5 rpm)	4.2
Viscosity, Brookfield CP51, 25 °C, mPa·s (cP):	
Speed 5 rpm	11,000
Work Life @ 25°C, hours	24
Shelf Life @ -40°C (from date of manufacture), days	365

TYPICAL CURING PERFORMANCE

Cure Schedule

90 seconds @ 110°C

Alternate Cure Schedule

60 seconds @ 120°C or 10 seconds @ 150°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

Coefficient of Thermal Expansion :	
Below Tg, ppm/°C	54
Above Tg, ppm/°C	128
Glass Transition Temperature (Tg) by TMA, °C	120
Thermal Conductivity, W/(m-K)	0.35
Extractable Ionic Content, ppm:	
Chloride (CI-)	<30
Sodium (Na+)	<90
Potassium (K+)	<20

Ten	sile Modulus, DMTA:			
@	-65 °C	N/mm²	3,700	
		(psi)	(540,000)	
@	25 °C	N/mm²	2,500	
		(psi)	(360,000)	
@	150 °C	N/mm²	70	
		(psi)	(11,000)	
@	250 °C	N/mm²	68	
		(psi)	(10,000)	
Wat	er Extract Conductivity, µmhos/cm		75	
Wei	ght Loss @ 300°C, %		2.51	

TYPICAL PERFORMANCE OF CURED MATERIAL

Miscellaneous

GENERAL INFORMATION

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

Thawing:

- 1. Allow container to reach room temperature before use.
- After removing from the freezer, set the syringes to stand vertically while thawing.
- DO NOT open the container before contents reach 25°C temperature. Any moisture that collects on the thawed container should be removed prior to opening the container.
- DO NOT re-freeze. Once thawed to -40°C, the adhesive should not be re-frozen.

DIRECTIONS FOR USE

- 1. Thawed adhesive should immediately be placed on dispense equipment for use.
- If the adhesive is transferred to a final dispensing reservoir, care must be exercised to avoid entrapment of contaminants and/or air into the adhesive.
- Adhesive must be completely used within the product's recommended work life.



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: -40 °C. Storage below minus (-)40 °C or greater than minus (-)40 °C can adversely affect product properties.

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·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.

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Reference 1

Mouser Electronics

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Loctite:

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