

Technical Data Sheet

LOCTITE STYCAST RE 2038/ HD 3475

February 2020

PRODUCT DESCRIPTION

LOCTITE STYCAST RE 2038/ HD 3475 provides the following product characteristics:

Technology	Ероху
Appearance,Resin (Component A)	Amber
Appearance, Hardener (Component B)	Amber
Appearance (cured)	Amber
Components	Two components - requires mixing
Product Benefits	Low viscosity
	 Excellent electrical and physical properties
Mix Ratio by weight: Part A: Part B	100 : 25
Mix Ratio by volume: Part A: Part B	100 : 26
Cure	Heat cure and Room temperature
Application	Encapsulation and Potting

LOCTITE STYCAST RE 2038/ HD 3475 is a low viscosity, general casting system with excellent electrical and physical properties. It can be used whenever a rigid compound is needed and very low mixed viscosity is critical.

TYPICAL PROPERTIES OF UNCURED MATERIAL Part A Properties

LOCTITE STYCAST RE 2038

Viscosity, Brookfield - RVF, 25 °C, cps:	
Spindle 2, speed 20 rpm	900
Specific Gravity @ 25 °C	1.17
Color	Gardner 3
Shelf Life @ 25°C, days	365
Flash Point - See SDS	

Part B Properties

LOCTITE STYCAST HD 3475

Viscosity, Brookfield - RVF, 25 °C, cps:	
Spindle 5, speed 4 rpm	5,000
Specific Gravity @ 25 °C	1.1
Color, maximum	Gardner 4
Shelf Life @ 25°C, days	365
Flash Point - See SDS	

Mixed Properties

LOCTITE STYCAST RE 2038 with LOCTITE STYCAST HD 3475

Viscosity @ 25 °C, cps	1,500
Density, gm/cc	1.17
Pot Life, 200 gm mass, @ 25 °C, minutes	25
Flash Point - See SDS	

TYPICAL CURING PERFORMANCE

Recommended Cure Schedule

2 hours @ 60°C

Alternate Cure Schedule

24 hours @ 25°C

Peak Exotherm

Peak Exotherm Temperature, 200 gram mass, °C

200

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

85
C x 10⁻6:
85
191
89
4.98
80
1.1
0.2
5×10⁴
105



Electrical Properties:

Electrical Froperties.		
Dielectric Strength, 10 mil th	nickness, volts/mil	1,800
Arc Resistance, seconds		105
Volume Resistivity, ohm-cm	:	
@ 25 °C		7×10 ¹⁶
@ 105 °C		6×10 ¹²
Dielectric Constant / Dissipa	tion Factor:	
@ 25 °C:		
@ 100 Hz		3.9/0.008
@ 1 kHz		4.1/0.017
@ 100 kHz		3.5/0.033
@ 105 °C:		
@ 100 Hz		5.3/0.057
@ 1 kHz		4.9/0.023
@ 100 kHz		4.5/0.023
		7.5/0.027

TYPICAL PERFORMANCE OF CURED MATERIAL

Compressive Strength	N/mm²	261
	(psi)	(37,900)
Flexural Strength	N/mm²	145
-	(psi)	(21,100)
Tensile Strength	N/mm ²	74.8
C C	(psi)	(10,850)
IZOD Impact Strength, ft. lbs/inch of notch		0.25

GENERAL INFORMATION

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

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 : 8 to 28 °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
$N \cdot m \ge 8.851 = Ib \cdot in$ $N \cdot m \ge 0.738 = Ib \cdot ft$ $N \cdot mm \ge 0.142 = oz \cdot in$
$mPa \cdot s = cP$

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 1