

# LOCTITE STYCAST 2651-40 W 1

March 2016

#### PRODUCT DESCRIPTION

LOCTITE STYCAST 2651-40 W 1 provides the following product characteristics:

Technology	Ероху	
Appearance (Resin)	Black	
Product Benefits	Low viscosity	
	<ul> <li>Room temperature cure capability</li> </ul>	
	Can be color coded to specification	
Cure	Room temperature or Heat cure	
Application	Potting, Encapsulant	

LOCTITE STYCAST 2651-40 W 1 epoxy encapsulant is designed for general purpose applications and has excellent adhesion to a wide variety of substrates. When fully cured, the material is readily machined with carbide tools.

LOCTITE STYCAST 2651-40 W 1 can be used with a variety of catalysts. For more information on mixed properties when used with other available catalysts, please contact your local technical service representative for assistance and recommendations.

#### CATALYST DESCRIPTION

LOCTITE CAT 9 provides the following product characteristics:

Product Benefits	<ul><li>General purpose</li><li>Good chemical resistance</li><li>Good physical strength</li></ul>
Cure	Room temperature cure

#### LOCTITE CAT 24LV provides the following product characteristics:

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Product Benefits	Low color
	<ul> <li>Low viscosity</li> </ul>
	<ul> <li>Excellent thermal shock and impact resistance</li> </ul>
	<ul> <li>Excellent adhesion to Glass</li> </ul>
Cure	Room temperature cure

#### LOCTITE CAT 28 provides the following product characteristics:

Product Benefits	<ul> <li>Long pot life</li> </ul>
	<ul> <li>Excellent chemical resistance</li> </ul>
	Good physical and chemical properties
	at elevated temperatures
Cure	Heat cure

#### LOCTITE CAT 27-1 provides the following product characteristics:

Product Benefits	Long pot life
	Excellent chemical resistance
	<ul> <li>Good physical and chemical properties at elevated temperatures</li> </ul>
Cure	Heat cure

#### TYPICAL UNCURED PROPERTIES LOCTITE STYCAST 2651-40 W 1 Brockfield Viscosity mPars (cP):

Brookfield Viscosity , mPa·s (cP): Spindle 6, speed 5 rpm Density, g/cm <sup>3</sup> Shelf Life @ 18 to 25°C (from date of manufacture), days Flash Point - See SDS	33,000 1.5 365
LOCTITE CAT 9 Viscosity @ 25 °C, mPa·s (cP) Density (g/cc <sup>3</sup> ) Flash Point - See SDS	450 1.0
LOCTITE CAT 24LV Viscosity @ 25 °C, mPa·s (cP) Density, g/cm <sup>3</sup> Flash Point - See SDS	15 1.05
LOCTITE CAT 27-1 Viscosity @ 25 °C, mPa·s (cP) Density, g/cm <sup>3</sup> Flash Point - See SDS	275 1.05
LOCTITE CAT 28 Viscosity @ 25 °C, mPa·s (cP)	275

#### TYPICAL UNCURED PROPERTIES AS MIXED

Density, g/cm<sup>3</sup> Flash Point - See SDS

#### LOCTITE STYCAST 2651-40 W 1 with LOCTITE CAT 9

Mix Ratio, Material:Catalyst:	
By Weight	100 : 9
By Volume	100 : 13.5
Work Life, 100 grams, @ 25°C, minutes	45

### LOCTITE STYCAST 2651-40 W 1 with LOCTITE CAT 24LV

Mix Ratio, Material:Catalyst:	
By Weight	100 : 18
By Volume	100 : 27
Work Life, 100 grams, @ 25°C, minutes	30

#### LOCTITE STYCAST 2651-40 W 1 with LOCTITE CAT 27-1

Mix Ratio, Material:Catalyst:	
By Weight	100 : 15
By Volume	100 : 22
Work Life, 100 grams @ 25°C, hours	2



1.05

#### LOCTITE STYCAST 2651-40 W 1 with LOCTITE CAT 28

Mix Ratio, Material:Catalyst:	
By Weight	100 : 15
By Volume	100 : 22
Work Life, 100 grams, @ 25°C, hours	2

### TYPICAL CURING PERFORMANCE

#### **Cure Schedule**

LOCTITE STYCAST 2651-40 W 1 with LOCTITE CAT 9 16 to 24 hours @ 25°C or 4 to 6 hours @ 45°C or 1 to 2 hours @ 65°C

#### LOCTITE STYCAST 2651-40 W 1 with LOCTITE CAT 24LV 24 hours @ 25°C or 4 to 6 hours @ 45°C or 2 to 4 hours @ 120°C

## LOCTITE STYCAST 2651-40 W 1 with LOCTITE CAT 27-1 4 hours @ 120°C

#### LOCTITE STYCAST 2651-40 W 1 with LOCTITE CAT 28 4 hours @ 25°C

For optimum performance, follow the initial cure with a post cure of 4 to 6 hours at the highest expected use temperature.

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 LOCTITE STYCAST 2651-40 W 1 with LOCTITE CAT 9

Physical Properties		
Hardness, Shore D		90
Glass Transition Temperature, °C:		
ТМА		117
DMA, Tangent Delta		110
Coefficient of Thermal Expansion , ppm/°C:		
Below Tg		60
Above Tg		148
Young's modulus (E) :		
@ 35°C	N/mm <sup>2</sup>	.,
	(psi)	· · ·
@ 50°C	N/mm²	
@ 100°C	(psi) N/mm²	(632,509)
@ 100°C	(psi)	. = •
@ 150°C	N/mm <sup>2</sup>	
	(psi)	
Weight Loss , %:	(1)	(,)
@ 150°C		0.04
@ 200°C		0.1
@ 250°C		0.21
@ 300°C		0.38
@ 700°C		58.6
Thermal Conductivity, W/(m-K)		0.48
Linear Shrinkage, %		0.5
Water Absorption, %:		
After 1 day @ 25 °C		0.03
After 7 days @ 25 °C		0.07

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Operating temperature, °C:		
Continuous		-40 to +130
Intermittent		-40 to +150
internittent		-40 10 1 100
Electrical Properties		
Volume Resistivity, ohm-cm		1.4×10 <sup>15</sup>
Surface Resistivity, ohms		6.6×10 <sup>15</sup>
Dielectric Constant / Dissipation Factor:		
@ 50 Hz		4.8/0.052
@ 1 KHz		4.6/0.044
@ 1 MHz		3.9/0.03
@ T MI IZ		3.9/0.03
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LOCTITE STYCAST 2651-40 W 1 with LOCTI	IE CAI	24LV
Physical Properties		
Hardness, Shore D		88
Glass Transition Temperature, °C:		
TMA		73
DMA, Tangent Delta		77
Coefficient of Thermal Expansion , ppm/°C:		
Below Tg		42
Above Tg		167
Young's modulus (E) :		
@ 35°C	N/mm²	3,540
	(psi)	(513,433)
@ 50°C	N/mm <sup>2</sup>	
	(psi)	(489,067)
@ 100°C	N/mm <sup>2</sup>	,
	(psi)	(7,251)
@ 150°C	N/mm <sup>2</sup>	. ,
	(psi)	(8,702)
Weight Loss,%:	(1)	(-,,
@ 150°C		0.2
@ 200°C		0.2
•		
@ 250°C		0.45
@ 300°C		0.57
@ 700°C		58.2
Thermal Conductivity, W/(m-K)		0.46
Linear Shrinkage, %		0.84
Water Absorption:		
After 1 day @ 25 °C		0.05
After 7 days @ 25 °C		0.15
Operating temperature, °C:		
Continuous		-65 to +105
Intermittent		-65 to +120
Electrical Properties		
Volume Resistivity, ohm-cm		1.6×10 <sup>15</sup>
Surface Resistivity, ohms		2.2×10 <sup>15</sup>
Dielectric Constant / Dissipation Factor:		
@ 50 Hz		4.9/0.051
@ 1 KHz		5.1/0.044
@ 1 MHz		3.9/0.051
LOCTITE STYCAST 2651-40 W 1 with LOCTI	TE CAT	27-1

#### LOCTITE STYCAST 2651-40 W 1 with LOCTITE CAT 27-1 Physical Properties

Physical Properties	
Hardness, Shore D	94
Glass Transition Temperature, °C:	
ТМА	145
DMA, Tangent Delta	141
Coefficient of Thermal Expansion , ppm/°C:	
Below Tg	49
Above Tg	144

Young's modulus (E) :		
@ 35°C	N/mm²	3,100
	(psi)	()
@ 50°C	N/mm²	3,040
0	(psi)	0
@ 100°C	N/mm²	2,600
-	(psi)	()
@ 150°C	N/mm²	70
	(psi)	()
Weight Loss , %:		
@ 150°C		0.1
@ 200°C		0.2
@ 250°C		0.32
@ 300°C		0.46
@ 700°C		59.8
Thermal Conductivity , W/(m-K)		0.5
Linear Shrinkage, %		0.87
Water Absorption:		
After 1 day @ 25 °C		0.04
After 7 days @ 25 °C		0.1
Operating temperature, °C:		0.1
Continuous		-40 to +175
Intermittent		-40 to +175
Internittent		-40 10 +200
Electrical Properties		
Surface Resistivity, ohms		6.5×10 <sup>16</sup>
Volume Resistivity, ohm-cm		2.8×10 <sup>15</sup>
Dielectric Constant / Dissipation Factor:		
@ 50 Hz		4.8/0.039
@ 1 KHz		4.8/0.04
@ 1 MHz		4.0/0.04
		4.0/0.04
<b>e</b> · · · · · · ·		
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LOCTITE STYCAST 2651-40 W 1 with LOCTI	ТЕ САТ	28
LOCTITE STYCAST 2651-40 W 1 with LOCTI Physical Properties	TE CAT	
LOCTITE STYCAST 2651-40 W 1 with LOCTI Physical Properties Hardness, Shore D	TE CAT	<b>28</b> 94
LOCTITE STYCAST 2651-40 W 1 with LOCTI Physical Properties	TE CAT	
LOCTITE STYCAST 2651-40 W 1 with LOCTI Physical Properties Hardness, Shore D	TE CAT	
LOCTITE STYCAST 2651-40 W 1 with LOCTI Physical Properties Hardness, Shore D Glass Transition Temperature, °C:	TE CAT	94
LOCTITE STYCAST 2651-40 W 1 with LOCTI Physical Properties Hardness, Shore D Glass Transition Temperature, °C: TMA	TE CAT	94 145
LOCTITE STYCAST 2651-40 W 1 with LOCTI Physical Properties Hardness, Shore D Glass Transition Temperature, °C: TMA DMA, Tangent Delta	TE CAT	94 145
LOCTITE STYCAST 2651-40 W 1 with LOCTI Physical Properties Hardness, Shore D Glass Transition Temperature, °C: TMA DMA, Tangent Delta Coefficient of Thermal Expansion , ppm/°C:	TE CAT	94 145 141
LOCTITE STYCAST 2651-40 W 1 with LOCTI Physical Properties Hardness, Shore D Glass Transition Temperature, °C: TMA DMA, Tangent Delta Coefficient of Thermal Expansion , ppm/°C: Below Tg Above Tg	TE CAT	94 145 141 49
LOCTITE STYCAST 2651-40 W 1 with LOCTI Physical Properties Hardness, Shore D Glass Transition Temperature, °C: TMA DMA, Tangent Delta Coefficient of Thermal Expansion , ppm/°C: Below Tg Above Tg Young's modulus (E) :	TE CAT	94 145 141 49 144
LOCTITE STYCAST 2651-40 W 1 with LOCTI Physical Properties Hardness, Shore D Glass Transition Temperature, °C: TMA DMA, Tangent Delta Coefficient of Thermal Expansion , ppm/°C: Below Tg Above Tg	N/mm²	94 145 141 49 144 3,100
LOCTITE STYCAST 2651-40 W 1 with LOCTI Physical Properties Hardness, Shore D Glass Transition Temperature, °C: TMA DMA, Tangent Delta Coefficient of Thermal Expansion , ppm/°C: Below Tg Above Tg Young's modulus (E) : @ 35°C		94 145 141 49 144 3,100 (449,617)
LOCTITE STYCAST 2651-40 W 1 with LOCTI Physical Properties Hardness, Shore D Glass Transition Temperature, °C: TMA DMA, Tangent Delta Coefficient of Thermal Expansion , ppm/°C: Below Tg Above Tg Young's modulus (E) :	N/mm² (psi) N/mm²	94 145 141 49 144 3,100 (449,617) 3,040
LOCTITE STYCAST 2651-40 W 1 with LOCTI Physical Properties Hardness, Shore D Glass Transition Temperature, °C: TMA DMA, Tangent Delta Coefficient of Thermal Expansion , ppm/°C: Below Tg Above Tg Young's modulus (E) : @ 35°C @ 50°C	N/mm² (psi)	94 145 141 49 144 3,100 (449,617)
LOCTITE STYCAST 2651-40 W 1 with LOCTI Physical Properties Hardness, Shore D Glass Transition Temperature, °C: TMA DMA, Tangent Delta Coefficient of Thermal Expansion , ppm/°C: Below Tg Above Tg Young's modulus (E) : @ 35°C	N/mm² (psi) N/mm² (psi)	94 145 141 49 144 3,100 (449,617) 3,040 (440,914)
LOCTITE STYCAST 2651-40 W 1 with LOCTI Physical Properties Hardness, Shore D Glass Transition Temperature, °C: TMA DMA, Tangent Delta Coefficient of Thermal Expansion , ppm/°C: Below Tg Above Tg Young's modulus (E) : @ 35°C @ 50°C @ 100°C	N/mm² (psi) N/mm² (psi) N/mm²	94 145 141 49 144 3,100 (449,617) 3,040 (440,914) 2,600
LOCTITE STYCAST 2651-40 W 1 with LOCTI Physical Properties Hardness, Shore D Glass Transition Temperature, °C: TMA DMA, Tangent Delta Coefficient of Thermal Expansion , ppm/°C: Below Tg Above Tg Young's modulus (E) : @ 35°C @ 50°C	N/mm² (psi) N/mm² (psi) N/mm² (psi)	94 145 141 49 144 3,100 (449,617) 3,040 (440,914) 2,600 (377,098) 70
LOCTITE STYCAST 2651-40 W 1 with LOCTI Physical Properties Hardness, Shore D Glass Transition Temperature, °C: TMA DMA, Tangent Delta Coefficient of Thermal Expansion , ppm/°C: Below Tg Above Tg Young's modulus (E) : @ 35°C @ 50°C @ 100°C @ 150°C	N/mm² (psi) N/mm² (psi) N/mm² (psi) N/mm²	94 145 141 49 144 3,100 (449,617) 3,040 (440,914) 2,600 (377,098)
LOCTITE STYCAST 2651-40 W 1 with LOCTI Physical Properties Hardness, Shore D Glass Transition Temperature, °C: TMA DMA, Tangent Delta Coefficient of Thermal Expansion , ppm/°C: Below Tg Above Tg Young's modulus (E) : @ 35°C @ 50°C @ 100°C @ 150°C Thermal Conductivity, W/(m-K)	N/mm² (psi) N/mm² (psi) N/mm² (psi) N/mm²	94 145 141 49 144 3,100 (449,617) 3,040 (440,914) 2,600 (377,098) 70 (10,152)
LOCTITE STYCAST 2651-40 W 1 with LOCTI Physical Properties Hardness, Shore D Glass Transition Temperature, °C: TMA DMA, Tangent Delta Coefficient of Thermal Expansion , ppm/°C: Below Tg Above Tg Young's modulus (E) : @ 35°C @ 50°C @ 100°C @ 150°C Thermal Conductivity, W/(m-K) Weight Loss :	N/mm² (psi) N/mm² (psi) N/mm² (psi) N/mm²	94 145 141 49 144 3,100 (449,617) 3,040 (440,914) 2,600 (377,098) 70 (10,152)
LOCTITE STYCAST 2651-40 W 1 with LOCTI Physical Properties Hardness, Shore D Glass Transition Temperature, °C: TMA DMA, Tangent Delta Coefficient of Thermal Expansion , ppm/°C: Below Tg Above Tg Young's modulus (E) : @ 35°C @ 50°C @ 100°C @ 150°C Thermal Conductivity, W/(m-K) Weight Loss : @ 150°C	N/mm² (psi) N/mm² (psi) N/mm² (psi) N/mm²	94 145 141 49 144 3,100 (449,617) 3,040 (440,914) 2,600 (377,098) 70 (10,152) 0.55 0.1
LOCTITE STYCAST 2651-40 W 1 with LOCTI Physical Properties Hardness, Shore D Glass Transition Temperature, °C: TMA DMA, Tangent Delta Coefficient of Thermal Expansion , ppm/°C: Below Tg Above Tg Young's modulus (E) : @ 35°C @ 50°C @ 100°C @ 100°C @ 150°C Thermal Conductivity, W/(m-K) Weight Loss : @ 200°C	N/mm² (psi) N/mm² (psi) N/mm² (psi) N/mm²	94 145 141 49 144 3,100 (449,617) 3,040 (440,914) 2,600 (377,098) 70 (10,152) 0.55 0.1 0.2
LOCTITE STYCAST 2651-40 W 1 with LOCTI Physical Properties Hardness, Shore D Glass Transition Temperature, °C: TMA DMA, Tangent Delta Coefficient of Thermal Expansion , ppm/°C: Below Tg Above Tg Young's modulus (E) : @ 35°C @ 50°C @ 100°C @ 100°C @ 150°C Thermal Conductivity, W/(m-K) Weight Loss : @ 250°C @ 250°C	N/mm² (psi) N/mm² (psi) N/mm² (psi) N/mm²	94 145 141 49 144 3,100 (449,617) 3,040 (440,914) 2,600 (377,098) 70 (10,152) 0.55 0.1 0.2 0.32
LOCTITE STYCAST 2651-40 W 1 with LOCTI Physical Properties Hardness, Shore D Glass Transition Temperature, °C: TMA DMA, Tangent Delta Coefficient of Thermal Expansion , ppm/°C: Below Tg Above Tg Young's modulus (E) : @ 35°C @ 50°C @ 100°C @ 100°C @ 150°C Thermal Conductivity, W/(m-K) Weight Loss : @ 150°C @ 200°C @ 250°C @ 300°C	N/mm² (psi) N/mm² (psi) N/mm² (psi) N/mm²	94 145 141 49 144 3,100 (449,617) 3,040 (440,914) 2,600 (377,098) 70 (10,152) 0.55 0.1 0.2 0.32 0.46
LOCTITE STYCAST 2651-40 W 1 with LOCTI Physical Properties Hardness, Shore D Glass Transition Temperature, °C: TMA DMA, Tangent Delta Coefficient of Thermal Expansion , ppm/°C: Below Tg Above Tg Young's modulus (E) : @ 35°C @ 50°C @ 100°C @ 100°C @ 150°C Thermal Conductivity, W/(m-K) Weight Loss : @ 150°C @ 200°C @ 250°C @ 300°C @ 300°C @ 700°C	N/mm² (psi) N/mm² (psi) N/mm² (psi) N/mm²	94 145 141 49 144 3,100 (449,617) 3,040 (440,914) 2,600 (377,098) 70 (10,152) 0.55 0.1 0.2 0.32 0.46 59.8
LOCTITE STYCAST 2651-40 W 1 with LOCTI Physical Properties Hardness, Shore D Glass Transition Temperature, °C: TMA DMA, Tangent Delta Coefficient of Thermal Expansion , ppm/°C: Below Tg Above Tg Young's modulus (E) : @ 35°C @ 50°C @ 100°C @ 100°C @ 150°C Thermal Conductivity, W/(m-K) Weight Loss : @ 150°C @ 200°C @ 250°C @ 300°C @ 300°C @ 300°C @ 700°C Linear Shrinkage, %	N/mm² (psi) N/mm² (psi) N/mm² (psi) N/mm²	94 145 141 49 144 3,100 (449,617) 3,040 (440,914) 2,600 (377,098) 70 (10,152) 0.55 0.1 0.2 0.32 0.46
LOCTITE STYCAST 2651-40 W 1 with LOCTI Physical Properties Hardness, Shore D Glass Transition Temperature, °C: TMA DMA, Tangent Delta Coefficient of Thermal Expansion , ppm/°C: Below Tg Above Tg Young's modulus (E) : @ 35°C @ 50°C @ 100°C @ 100°C @ 150°C Thermal Conductivity, W/(m-K) Weight Loss : @ 150°C @ 200°C @ 250°C @ 300°C @ 300°C @ 300°C @ 700°C Linear Shrinkage, % Water Absorption:	N/mm² (psi) N/mm² (psi) N/mm² (psi) N/mm²	94 145 141 49 144 3,100 (449,617) 3,040 (440,914) 2,600 (377,098) 70 (10,152) 0.55 0.1 0.2 0.32 0.46 59.8 0.87
LOCTITE STYCAST 2651-40 W 1 with LOCTI Physical Properties Hardness, Shore D Glass Transition Temperature, °C: TMA DMA, Tangent Delta Coefficient of Thermal Expansion , ppm/°C: Below Tg Above Tg Young's modulus (E) : @ 35°C @ 50°C @ 100°C @ 100°C @ 150°C Thermal Conductivity, W/(m-K) Weight Loss : @ 150°C @ 200°C @ 250°C @ 300°C @ 300°C @ 300°C @ 700°C Linear Shrinkage, % Water Absorption: After 1 day @ 25 °C	N/mm² (psi) N/mm² (psi) N/mm² (psi) N/mm²	94 145 141 49 144 3,100 (449,617) 3,040 (440,914) 2,600 (377,098) 70 (10,152) 0.55 0.1 0.2 0.32 0.46 59.8 0.87 0.04
LOCTITE STYCAST 2651-40 W 1 with LOCTI Physical Properties Hardness, Shore D Glass Transition Temperature, °C: TMA DMA, Tangent Delta Coefficient of Thermal Expansion , ppm/°C: Below Tg Above Tg Young's modulus (E) : @ 35°C @ 50°C @ 100°C @ 100°C @ 150°C Thermal Conductivity, W/(m-K) Weight Loss : @ 150°C @ 200°C @ 250°C @ 300°C @ 300°C @ 300°C @ 700°C Linear Shrinkage, % Water Absorption:	N/mm² (psi) N/mm² (psi) N/mm² (psi) N/mm²	94 145 141 49 144 3,100 (449,617) 3,040 (440,914) 2,600 (377,098) 70 (10,152) 0.55 0.1 0.2 0.32 0.46 59.8 0.87

Operating temperature, °C:	
Continuous	-40 to +175
Intermittent	-40 to +200
Electrical Properties	
Volume Resistivity, ohm-cm	2.8×10 <sup>15</sup>
Surface Resistivity, ohms	6.5×10 <sup>15</sup>
Dielectric Constant / Dissipation Factor:	
@ 50 Hz	4.8/0.039
@ 1 KHz	4.8/0.04
@ 1 MHz	4.0/0.04

#### **GENERAL INFORMATION**

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

#### DIRECTIONS FOR USE

- Complete cleaning of the components and substrates should be performed to remove contamination such as dust, moisture, salt and oils which can cause electrical failure, poor adhesion or corrosion in an embedded part.
- 2. Some filler settling is common during shipping and storage. For this reason, it is recommended that the contents of the shipping container be thoroughly mixed prior to use.
- 3. Power mixing is preferred to ensure a homogeneous product.
- 4. Accurately weigh resin and hardener into a clean container in the recommended ratio. Weighing apparatus having an accuracy in proportion to the amounts being weighed should be used.
- 5. Blend components by hand, using a kneading motion, for 2 to 3 minutes and scrape the bottom and sides of the mixing container frequently to produce a uniform mixture.
- If possible, power mix for an additional 2 to 3 minutes. Avoid high mixing speeds. This can entrap excessive amounts of air. It can also cause overheating of the mixture, resulting in reduced working life.
- To ensure a void-free embedment, vacuum deairing should be used to remove any entrapped air introduced during the mixing operation.
- 8. Vacuum deair mixture at 1 to 5 mm mercury. The foam will rise several times the liquid height and then subside.
- 9. Continue vacuum deairing until most of the bubbling has ceased. This usually takes 3 to 10 minutes.
- To facilitate deairing, gentle warming will also help but working life will be shortened. Reduced viscosity provides easy air release upon standing for a few minutes.
- 11. Pour mixture into cavity or mold.
- 12. Gentle warming of the mold or assembly reduces the viscosity. This improves the flow of the material into the unit having intricate shapes or tightly packed coils or components.
- 13. Further vacuum deairing in the mold may be required for critical applications.
- 14. During storage at room temperature for long periods, it is possible that the viscosity of LOCTITE STYCAST 2651-40 W 1 may increase and may exceed its upper specification limit. The viscosity can be brought back to the normal level by moderate mixing.

#### Storage

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

#### Optimal Storage : 18 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.

#### 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.

#### Conversions

#### 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 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