

# LOCTITE EO7029

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## PRODUCT DESCRIPTION

LOCTITE EO7029 provides the following product characteristics:

<b>Technology</b>	Epoxy
<b>Appearance</b>	Beige
<b>Product Benefits</b>	<ul style="list-style-type: none"> <li>One component</li> <li>Fast cure at moderate temperatures</li> </ul>
<b>Cure</b>	Heat cure
<b>Application</b>	Encapsulation, Coating
<b>Typical Assembly Applications</b>	Smart card applications

LOCTITE EO7029 encapsulant is formulated for use in smart card applications. The thixotropic property of this material is designed to avoid flow during cure.

## TYPICAL PROPERTIES OF UNCURED MATERIAL

Viscosity, Brookfield, 25 °C, mPa·s (cP):

Spindle 6, speed 50 rpm	13,000
Spindle 6, speed 5 rpm	48,000

Specific Gravity @ 25°C, g/cm<sup>3</sup> 1.2

Shelf Life @ -20°C (from date of manufacture), 243 days

Gel Time:

@ 100°C, minutes	13
@ 110°C, minutes	7

*The criteria for the extinction of shelf life is a change of >10% in the thixotropic index.*

## TYPICAL CURING PERFORMANCE

### Recommended Cure When Used on

Robust non-stress sensitive components	5min @ 150°C
Stress sensitive components	1hour @ 120°C

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

## TYPICAL PROPERTIES OF CURED MATERIAL

### Physical Properties

Glass Transition Temperature (Tg) by TMA, °C	110
Coefficient of Linear Thermal Expansion, TMA, ppm/°C:	
Alpha 1, 40 to 80 °C	66
Alpha 2, 140 to 200 °C	181
Hardness, Shore D, DIN 53505, Minimum	80

## GENERAL INFORMATION

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

## SHIPPING

- LOCTITE EO7029 is shipped between the temperatures -20°C to 30°C. This material can be stored at this temperature for a period of two weeks while in transit.

## THAWING:

- Allow container to reach room temperature before use.

## DIRECTIONS FOR USE

- LOCTITE EO7029 should not be used for potting or globbing masses larger than 1 gram when curing at more than 120°C. Severe exotherm may occur and can cause bubble formation, craters on the surface, smoke and high shrinkage.
- Mix thoroughly before use. Heating to 40°C will lower the viscosity and aid in mixing and pouring (the viscosity will remain the same for a few hours).

## STORAGE

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

### Optimal Storage : -20 °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 Henkel 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
N/mm <sup>2</sup> x 145 = psi
N/mm <sup>2</sup> = MPa
N·m x 8.851 = lb·in
N·m x 0.738 = lb·ft
N·mm x 0.142 = oz·in
mPa·s = cP

**Not for product specifications**

The technical data contained herein are intended as reference only. Please contact your local Henkel representative for assistance and recommendations on the specifications of this product.

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Reference 0.3