

LOCTITE EO7036

January 2014

PRODUCT DESCRIPTION

LOCTITE EO7036 provides the following product characteristics:

Technology	Epoxy
Appearance	Beige
Product Benefits	- One component - Fast cure at moderate temperatures
Cure	Room temperature cure
Application	Encapsulant

LOCTITE EO7036 is specially formulated for use as a damming material in smartcard applications. It is also designed to be dispensed as a flow control barrier around areas of bare chip encapsulation.

LOCTITE EO7036 is compatible with smartcard fill encapsulant LOCTITE EO7037 and can be co-cured after encapsulation of the chips.

TYPICAL PROPERTIES OF UNCURED MATERIAL

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

Spindle 7, speed 5 rpm,	145
Spindle 7, speed 50 rpm	30

Shelf Life @ -40°C (from date of manufacture), days 365

Specific Gravity, @ 25°C, g/cm³ 1.2

Flash Point - See SDS

TYPICAL CURING PERFORMANCE

Gel Time

@ 100°C, minutes 8

Recommended Cure Schedule

Co-cure with Encapsulant EO7037

16 hours @ 100°C or

24 hours @ 90°C

The above cure profile is a guideline recommendation. 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 D, minimum (units) 80

Glass Transition Temperature (Tg) by TMA, °C 110

Coefficient of Linear Thermal Expansion, TMA:

Alpha 1, 40 to 80 °C, ppm/°C 66

Alpha 2, 140 to 200 °C, ppm/°C 181

GENERAL INFORMATION

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

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.

DIRECTIONS FOR USE

- Frozen packages must be completely thawed before use. Warm at room temperature until thawed. **Do not thaw in an oven or water bath.**
- LOCTITE EO7036 SHOULD NOT BE USED FOR POTTING/GLOBBING MASSES LARGER THAN 1 GRAM WHEN CURING >120°C. SEVERE EXOTHERM MAY OCCUR AND CAN CAUSE BUBBLE FORMATION, CRATERS ON THE SURFACE, SMOKE AND HIGH SHRINKAGE.
- Heating to 40°C will lower the viscosity and aid in dispensing 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 : -40 °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

N/mm² x 145 = psi

MPa = N/mm²

MPa x 145 = psi

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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