

LOCTITE® TLB 9270APS

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Product description

LOCTITE® TLB 9270APS provides the following product characteristics:

Technology	Polyurethane
Chemical type	2k polyurethane
Appearance (uncured)	Smooth, green
Component A resin	Blue paste
Component B hardener	Yellow paste
Mix ratio by vol, resin to hardener	1:1
Cure	Room temperature or heat
Application	Thermal conductive bonding
Product benefits	<ul style="list-style-type: none"> • High coefficient of thermal conductivity • Does not contain solvent • Longer open time and fast hardness build up • Good bonding strength for Aluminium and PET film

LOCTITE® TLB 9270APS is two-component polyurethane, high thermal conductivity adhesive with moderate viscosity, good electric insulation property and high bonding performance.

Typical properties of uncured material

	Property	Typical Value
Part A	Viscosity, Brookfield 94# spindle, 20RPM @25°C mpa.s	217200
	Density @25°C, g/cc	2.05
Part B	Viscosity, Brookfield 94# spindle, 20RPM @25°C mpa.s	148800
	Density @25°C, g/cc	2.09

Typical properties of cured material

Property	Typical Value
Density, g/cc	2.04
Thermal conductivity, W/m.K	2.05
Hardness, shore D @ 25°C/7d	74
Working time, min @25°C	40-45
Flammability UL 94V0 2mm	Pass
Elongation, %	16.3%
Tensile strength, MPa	11.0

Remark: above data are tested after 25°C/50%RH cure for 7d

Performance properties

Adhesion after room temperature cure	Typical Value
Volume resistivity, ohm.cm	5.2E13
Breakdown voltage, KV/mm	25.2
Lap shear strength 3003Al-3003Al (0,25mm spacer), MPa	10.5
Butt joint strength 3003Al-3003Al (1mm spacer), MPa	10.1

Remark: above data are tested after 25°C/50%RH cure for 7d

Test speed for lap shear strength: 5mm/min

Test speed for Butt joint strength: 5mm/min

General information

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

Note for product specifications

The Laboratory data contained herein are intended as reference only.

Directions for use

1. For high strength structural bonds, removal of surface contaminates such as paint, oxide films, oils, dust, mold release agents and all other surface contaminates.
2. Use gloves to minimize skin contact. DO NOT use solvents for cleaning hands.
3. Dual Cartridges: Insert the cartridge into the application gun and start the plunger into the cylinders using light pressure on the trigger. Next, remove the cartridge cap and expel a small amount of adhesive to be sure both sides are flowing evenly and freely. Attach the static mixing nozzle to the end of the cartridge and begin dispensing the adhesive. Purge and dispose of the first 3-5 cm from the end of the mix nozzle, as it may not be sufficiently mixed.
4. Bulk Containers: Utilize volumetric dispense system to ensure proper mix ratio and utilize mix nozzle to obtain adequate mixing.

Storage

Store product in the unopened container in a dry location, storage information may be indicated on the product container labeling. **Optimal storage 5°C to 25°C for a 6 months shelf life, in sealed container with moisture barrier packaging. Optimal shipping: 5 to 35°C.**

Do not return products 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.

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