

ELEPCOAT

LSS-520MH series

1. Outline

ELEPCOAT LSS-520MH is a liquid insulation moisture-proof sealing material. It has the features of "flexibility" "low moisture permeability" "hydrolysis resistance" "heat resistance" and "contributes to environmental load reduction".

LSS-520MHB and LSS-520MHF in this series contain a blue dye or fluorescent dye so as to clarify the coating area of the coating agents.

The insulating performance is the same for all three types.

2. Features

- Adopted Methylcyclohexane as for better environmental health and oversea shipment.
- Low coefficient of thermal expansion, low Young's modulus. Not affected by temperature changes, so there is no stress on boards or chips.
- Forms film only 5-10 minutes after coating. Also, uses a polymer consisting of a modified rubber-based material as its primary ingredient, so the film is resilient and resists the development of cracks.

3. General Properties

Item	Unit	LSS-520 MH	LSS-520 MHB	LSS-520 MHF	Test method
Color	-	Clear	Blue	Clear	Visual
Fluorescence	-	-	-	Fluorescent	Irradiating with black light
Viscosity	dPa·s	4			BL-type viscometer (25°C)
Nonvolatile content	%	25.0			Condition 1h at 120°C
Young's modulus	MPa	75			Tensile speed : 10mm/min
Elongation	%	460			Tensile speed : 300mm/min
Tensile strength	MPa	25			
Specific volume resistance	$\Omega \cdot \text{cm}$	3.3×10^{15}			ASTM D-257
Moisture permeability	$\text{g/m}^2 \cdot 24\text{hr}$	5.3			Condition 24h at 25°C and 90%RH Thickness : 100 μm
Set time to touch	min	5			Thickness: 50 μm
Thermal resistance test	135°C	hr	>5000		Time until elongation ratio reduce by half
	150°C		960		

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