

Product Data

Silicone Varnish for Surface Treatment TSR144

TSR144 is a methylphenyl silicone based varnish. This product dries to a non-sticky coated film at room temperature. The film provides excellent electrical properties and water repellency. TSR144 is suitable for surface treatment on printed circuit boards, etc.

KEY FEATURES

- ◆ Forms tack-free film at room temperature.
- ◆ The film provides excellent electrical properties and water repellency.
- ◆ Can be applied by dipping, brushing or spray coating.

TYPICAL APPLICATIONS

- ◆ Surface treatment for printed circuit boards, etc.

TYPICAL PROPERTY DATA

(JIS C 2122)

PROPERTIES		
Appearance		Pale yellow, clear
Specific gravity (25°C)		1.02
Viscosity (25°C)	Pa·s {P}	0.11 {1.1}
Solid content	%	50
Solvent		Xylene
Diluent		Xylene, Toluene

ELECTRICAL PROPERTIES

(JIS C 2122)

PROPERTIES			
Film thickness	Center	mm	0.033
	Lower	%	121
Tack free time	100°C	h	0.5
	Room temp.	h	1
Volume resistivity	Normal	$\Omega\cdot\text{cm}$	2.1×10^{16}
	After wetted	$\Omega\cdot\text{cm}$	2.9×10^{16}
Dielectric strength	Normal	kV(per 0.1mm)	8.1
	After wetted	kV(per 0.1mm)	8.4

GENERAL INSTRUCTION FOR USE

Use at room temperature, as the treated silicone film tends to lose its flexibility when used in high temperature and may crack if bent. If a diluted varnish solution having a silicone content of less than 10% is applied on phenolic resin sheets or the equivalent thereof, uneven coating may occur due to a lack of wetting capability on the material surface. Preliminary testing is

recommended if a diluted solution is to be applied.

HANDLING AND SAFETY

- ◆ Wear eye protection, protective gloves, and respiratory protection while handling the product.
- ◆ Since the product is flammable, strictly prohibit the use of devices that may cause fire.
- ◆ As electrostatic prevention, have equipments and devices grounded.

PRECAUTION FOR STORAGE

- ◆ Avoid direct sunlight and store the product, after it has been tightly sealed, in a dark indoor area which has little moisture.
- ◆ Keep out of the reach of children.

PACKAGING

- ◆ 1kg can available in case of 10
- ◆ 18kg can available by the can
- ◆ 200 kg drum available by the drum

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FOR INDUSTRIAL USE ONLY

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