## **RHODORSIL**<sup>®</sup> **RESIN 991**

Description	<b>RHODORSIL RESIN 991</b> is a silicone varnish offering significant increases in surface resistivity of insulating materials or electrical equipment such as printed circuits, electronic assemblies, etc. that are intended for use in very humid atmospheres and that are unable to be treated at high temperature.			
Advantages	<b>RHODORSIL RESIN 991</b> is particularly easy to use; it is used as delivered or diluted without the addition of catalyst and without the need for high temperature polymerisation drying being all that is required.			
	When used to protect integrated circuits, this resin also has the advantage of being destroyed on contact of the soldering iron. This feature enables quick and trouble-free work to be carried out (no prior cleaning) on protected circuits that are already in service.			
Characteristics	1. Physical properties			
	Chemical nature     phenyl silicone resin and an acrylic resin			
	Appearance clear, slightly opaque liquid			
	Colour pale straw yellow			
	• Dry matter content % approx 50			
	• Specific gravity at 25°C, approx 1.03			
	• Viscosity at 25℃, appro., mm <sup>2</sup> /s 175			
	Solvent xylene			
	• Flash point, closed cup, °C approx 25			
	<ul> <li>Diluents aromatic and chlorinated hydrocarbons, ketones and esters</li> </ul>			
	2. Dielectric properties			
	Measured on a film :			
	• Dielectric constant at 100 Hz, approx 2.7			
	• Power factor at 100 Hz, approx 1x10 <sup>-3</sup>			
	• Dielectric strength, kV/mm, approx 80			
	<ul> <li>Volume resistivity, Ω.cm, minimum 1x10<sup>14</sup></li> </ul>			



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Processing	<b>RHODORSIL RESIN 991</b> is delivered at a concentration and viscosity that are best suited to a dipping operation. Generally used as delivered, the resin may nonetheless be diluted for special applications using solvents such as xylene, toluene, chlorinated solvents, ketones and esters.			
	Once diluted, RHODORSIL RESIN 991 can be applied using a brush or by spraying			
	At ambient temperature, <b>RHODORSIL RESIN 991</b> dries in air within 4 to 12 hours. This drying time can be reduced by placing the products in a fan-assisted drying oven at moderate temperature or by passing them under an infra-red rack.			
	For best results, it is recommended to apply the resin to parts or surfaces that are scrupulously clean and dry. It is particularly advised to remove any traces of grease or organic substances. If a « tracer » is required in order to screen the extent and evenness of the coating, transstilbene may be incorporated into the solvent phase at amounts of c.a. 1000 ppm. This « tracer » is then visible by fluorescence under uv light of wavelength 365 nm.			
	<b>RHODORSIL RESIN 991</b> cannot be applied to parts or materials that are attacked by xylene, a solvent that is included in this varnish's composition.			
Packaging	RHODORSIL RESIN 991 is available in 25 kg drums.			
Storage and shelf life	When stored in its original unopened packaging at a temperature of between 5 and +25°C, <b>RHODORSIL RESIN 991</b> may be stored for up to 12 months from its date of delivery (expiry date). Comply with the storage instructions and expiry date marked on the packaging. Past this date, Bluestar Silicones no longer guarantees that the product meets the sales specifications. Use the product quickly once the packaging is opened.			
Safety	Consult the Safety Data Sheet for RHODORSIL RESIN 991.			

Visit our website www.bluestarsilicones.com

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