

Description	BLUESIL RES 991 is a combination of a methylphenyl silicone resin and an acrylic resin.
Examples of applications	BLUESIL RES 991 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.
Key benefits	BLUESIL RES 991 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.

Typical properties

1. Physical properties

Appearance	clear, slightly opaque liquid
Colour	pale straw yellow
Dry matter content, %, approx.	50
Viscosity (at 25°C, cPs, approx.)	175
Specific gravity (at 25 °C, approx.)	1.03
Solvent	xylene
Flash point, (°C, approx.)	25
Diluents	aromatic and chlorinated hydrocarbons, ketones and esters

2. Dielectric properties

Measured on a film:

Dielectric strength kV/mm,approx.	80
Dielectric constant at 100 Hz approx.	2.7
Power factor at 100 Hz, approx.	1x10 ⁻³
Volume resistivity, Ohm.cm,approx.	1x10 ¹⁴

Please note: The typical properties are not intended for use in preparing specifications. Please contact our local Sales Department for assistance in writing specifications.

Instruction of use	BLUESIL RES 991 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, BLUESIL RES 991 can be applied using a brush or by spraying At ambient temperature, BLUESIL RES 991 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.
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BLUESIL RES 991

Technical Data Sheet n° 1227-V4 – 2020/01/09

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.

BLUESIL RES 991 cannot be applied to parts or materials that are attacked by xylene, a solvent that is included in this varnish's composition.

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Regulation	Please consult your local ELKEM SILICONES sales office.
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Limitations

Packaging	<ul style="list-style-type: none">• BLUESIL RES 991 is available in<ul style="list-style-type: none">○ Drum of 25 KG (55.13 LB)○ Drum of 200 KG (441 LB)
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Storage and shelf life	When stored in its original packaging: BLUESIL RES 991 may be stored at temperatures between 2°C / 36°F and 30°C / 86°F for up to 12 months from its date of manufacturing. Comply with the storage instructions and expiration date marked on the packaging. Beyond this date, Elkem Silicones no longer guarantees that the product meets the sales specifications.
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Safety	Please consult the Safety Data Sheet of: BLUESIL RES 991
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Visit our website www.silicones.elkem.com

Warning to the users

The information contained in this document is given in good faith based on our current knowledge. It is only an indication and is in no way binding, particularly as regards infringement of or prejudice to third party rights through the use of our products. ELKEM SILICONES guarantees that its products comply with its sales specifications. This information must on no account be used as a substitute for necessary prior tests which alone can ensure that a product is suitable for given use. Determination of the suitability of product for the uses and applications contemplated by users and others shall be the sole responsibility of users. Users are responsible for ensuring compliance with local legislation and for obtaining the necessary certifications and authorisations. Users are requested to check that they are in possession of the latest version of this document and ELKEM SILICONES is at their disposal to supply any additional information.