

BLUESILTM
RES 8152P

Description	<p>BLUESIL RES 8152P is a methylphenyl silicone resin which offers the following advantages:</p> <ul style="list-style-type: none"> • low viscosity facilitating impregnation, • flexibility of the coating, • excellent dielectric properties.
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Examples of applications	<ul style="list-style-type: none"> - Impregnation of glasscloth braids, flexible sleeving and braided cables for electrical applications. It is also suitable for the manufacture of flexible insulating materials. - Manufacture of industrial high-temperature paints exposed to a continuous working temperature of 400 to 600 °C.
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Characteristics	<p>Appearance clear liquid</p> <p>Colour colourless to pale straw yellow</p> <p>Dry content, % 50</p> <p>Solvent toluene</p> <p>Flash point, °C, approx. 7</p> <p>Thinners..... aromatic hydrocarbons</p> <p>Specific gravity at 20 °C, approx. 1.0</p> <p>Viscosity at 20 °C, approx., mm²/s 170</p>
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Processing	<p>1. <u>Electrical applications</u></p> <p>BLUESIL RES 8152P is applied to glass braids and sleeving normally by dip coating. It should, therefore, be previously diluted in an aromatic solvent (toluene or xylene for instance) to a concentration in the order of 25 to 30 %.</p> <p>Curing may be accelerated by adding 0.5 to 1 % of a functional silane as aminoethyl, γ-aminopropyl trimethoxylane to the resin.</p> <p>After impregnation, coating braids and sleeving are baked in a hot air tunnel or tower at:</p> <ul style="list-style-type: none"> • 80 - 100 °C for the first zone • 100 - 150 °C for the medial zone • 220 °C approx. for the last zone. <p>The dipping time should be in the order of 10 minutes.</p> <p>Impregnation is obtained by successive coatings; as a general rule, 3 to 4 layers of the diluted resin solution, followed by a final layer of undiluted resin.</p>
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BLUESIL™ RES 8152P

Processing *(next)*

2 - Paint application

For good adhesion of the paint on the substrate, the surface to be coated should be preliminary sandblasted. The painted piece can be handled after drying 24 hours at room temperature.

Curing can be carried out at time of use (in this case, the coating should be protected during storage), or, if possible, the piece should be immediately heat-cured after application of the paint (30 min to 1 hour at 250-300 °C).

In the case of thick coatings, it is advisable to bring the temperature to 300 °C in stages in order to avoid blistering.

Packaging

BLUESIL RES 8152P is supplied in 200 kg drums.

Storage and shelf life

When stored in its original unopened packaging at a temperature between + 2 °C and +30 °C, **BLUESIL RES 8152P** may be stored for up to 18 months from its date of manufacture (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.

Safety

Consult the Safety Data Sheet for **BLUESIL RES 8152P**.

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