

BLUESIL RES 8152P

Description	BLUESIL RES 8152P is a 50% solids methylphenylsilicone resin in Toluene solution. This resin is designed to formulate heat resistant coatings for industrial applications with improved weatherability.
Examples of applications	<ul style="list-style-type: none"> • Impregnation of glass-cloth braids, flexible sleeving and braided cables for electrical applications. BLUESIL RES 8152P is also suitable for the manufacture of flexible insulating materials. • Manufacture of industrial heat-resistant coatings exposed to a continuous working-temperature of 400 to 600°C, with improved weatherability.
Key benefits	<ul style="list-style-type: none"> • High temperature resistance (up to 600°C) when used in combination with suitable temperature-stable fillers and pigments. • High flexibility. • Low viscosity facilitating impregnation. • Excellent dielectric properties.

Typical properties	Appearance	Clear to slightly hazy liquid
	Colour	Colourless to yellow
	Solid content, %	50
	Viscosity at 25 °C, mm²/s,	170
	Solvent	Toluene
	Specific gravity at 20 °C, approx.	1.0
	Flash point, °C, closed cup, approx.	7

ThinnersAromatic hydrocarbons
 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	<p>1. Electrical applications</p> <p>BLUESIL RES 8152P is normally applied to glass braids and sleeving by dip coating. It should therefore be pre-diluted in an aromatic solvent (toluene or xylene for example) to a concentration of 25 to 30% solids.</p> <p>Curing may be accelerated by adding 0.5 to 1% of a functional silane such as aminoethyl, γ-aminopropyl trimethoxysilane 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 is typically around 10 minutes.</p> <p>Impregnation is obtained by successive coatings; as a general rule, 3 to 4 layers of diluted resin solution, followed by a final layer of undiluted resin.</p> <p>2 - Paint application</p> <p>For good adhesion of the paint on the substrate, the surface to be coated first should be sandblasted. The painted piece will need baking before handling.</p> <p>Curing can be carried out at time of use (in which case, the coating should be protected during storage), or, if possible, the piece should be heat-cured (30 min to 1 hour at 250-300°C) immediately after application of the paint.</p> <p>In the case of thick coatings, it is advisable to bring the temperature to 300°C in stages in order to avoid blistering.</p>
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Regulation	Please consult your local ELKEM SILICONES sales office.
Limitations	Please consult your local ELKEM SILICONES sales office.

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Packaging	<ul style="list-style-type: none">• BLUESIL RES 8152P is available in<ul style="list-style-type: none">○ Drum of 200 KG (441 LB)
Storage and shelf life	When stored in its original packaging: BLUESIL RES 8152P may be stored at temperatures between -20°C / -4°F and 30°C / 86°F for up to 18 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.
Safety	Please consult the Safety Data Sheet of: BLUESIL RES 8152P

Visit our website www.elkem.com/silicones/

Warning to the users

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