

BLUESILTM
RES 8170P

distribuito da:
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azienda fondata nel 1892
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Description	BLUESIL RES 8170P is a methyl-phenyl silicone resin in a 70 % toluene solution.
Examples of applications	BLUESIL RES 8170P is used to manufacture rigid insulators in the high pressure process: laminates based on glass fabric, mica (mica paper), mica/glass composite fabric and asbestos. It offers outstanding mechanical properties.
Characteristics	<p>Appearance clear liquid Colour colourless to very pale yellow Active matter content, %, approx. 70 Solvent toluene Specific gravity at 20 °C, approx. 1.11 Viscosity at 20 °C, approx., mm²/s 100 Flash point, (closed up), °C, approx. 4 Diluents aromatic and aliphatic hydrocarbons</p> <p>Dielectric properties (Measured on 1mm thick glass / silicone laminates):</p> <p>Dielectric strength kV/mm, approx. 20 Volume resistivity, Ohms.cm, approx. 1 x 10¹⁵</p>
Processing	<p>Producing glass fibre laminates:</p> <p>BLUESIL RES 8170P must be used with the addition of a catalyst to accelerate the polymerisation:</p> <ul style="list-style-type: none"> - 1 to 2 ml of BLUESIL SICCATIF 15 for 1 kg of resin as delivered - 1 to 2 ml of Zinc Octoate for 1 kg of resin as delivered <p><i>Remark: When producing thick section parts (> 5 mm) the two catalysts can be mixed to avoid risks of cracking.</i></p> <p>For information purposes, good results are obtained using the following processing procedure and conditions:</p> <p>Dilute the catalysed BLUESIL RES 8170P with an aromatic hydrocarbon solvent, so as to obtain a retention rate of approx. 45 to 58 % (expressed in terms of dry matter relative to the fabric) after full immersion in an impregnation bath.</p> <ul style="list-style-type: none"> • Evaporate the solvents and precure by heating for 10 minutes at around 100/115°C. • Bind impregnated matter at a pressure of 5,000 to 8,000 kPa for 3 hours at a temperature of 170/180 °C. • Demould after cooling. • Post cure the laminates in an oven, heated gradually from 100 to 200 °C (rising by 50°C an hour) then maintain at 200 °C for 12 hours. <p>If no oven post-curing is performed, keep in the heated press for one hour (instead of 3 hours) at 170/180 °C, then raise the temperature to 200 °C and maintain at pressure for 6 hours. Demould when cold.</p>

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Packaging

BLUESIL RES 8170P is available in 200 kg drums.

Storage and shelf life

When stored in its original unopened packaging at a temperature of between + 2°C and +30°C, **BLUESIL RES 8170P** 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 8170P**.

Visit our website www.bluestarsilicones.com

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