



TECHNICAL DATA SHEET

BPSSC002 CONDUCTIVE FORM IN PLACE GASKET MATERIAL

Product Overview

BPSSC002 is an electrically conductive composite material comprising of a silicone elastomer and silver-plated copper particles. It is designed for Forming-in-Place (CNC application) onto a wide range of components where it cures to give an elastomeric gasket section that has good adhesion to most commonly used substrates. This allows intricate, small section gaskets to be reliably and efficiently applied to any quantity of parts without the need of expensive tooling.

When designed in correctly it provides a reusable RFI/EMC and environmental seal. If applied in combination with a non-conductive silicone form-in-place seal it is possible to achieve environmental sealing up to IP68 (water immersion).

BPSSC002 possess a combination of high conductivity and conformability (low force deflection) that makes it particularly suitable for use on metallized plastic enclosures or other flexible, thin walled components

Uncured Properties

Colour	Light tan
Form	Thixotropic paste
Cure time - 0.6mm high bead at 23 °C/50% RH	10 hours
Cured settlement time before use	24 hours

Cured Properties

Density	2.4gcm ⁻³
Hardness	40 Shore A
Volume resistivity	<0.01 Ohms.cm
Adhesion	>100 Ncm ⁻²
Attenuation - 100MHz to 10GHz (MIL-STD 285)	85 -110dB (typically)
Compression recommended (allowable range)	25% (10 - 50%)
Gasket resistance	<0.5 Ohms.cm ⁻¹
Elongation	100%
Compression set - 70 hours at 23°C	<20%
Operational temperature range	-55°C to 85°C
Force/deflection - 0.7mm high gasket section	0.8Ncm ⁻¹ @ 10%
	2.3Ncm ⁻¹ @ 25%
	8.6Ncm ⁻¹ @ 50%



Packaging

BPSSC002 is supplied in industry standard syringe type barrels from which the material may be directly dispensed. The two main sizes are 30ml and 55ml both of which incorporate luer lock fastenings at the nozzle that allow a wide range of dispense tips to be easily attached or detached.

Storing

It is recommended that when not in use that the material is stored in a cool dark, dry place. If the facility exists then some form of refrigerated or freezer storage is ideal. If kept properly sealed and in a suitable location then the material will remain usable for up to 6 weeks.

Handling

When using this material observe usual standards of industrial hygiene/practice. Avoid skin/eye contact and work in a adequately well ventilated area. For more detailed information please refer to the MSDS (Material Safety Data Sheet)