



Provisional Technical Data Sheet

SE2011 Adhesive Potting Compound

SE2011 is a two part, condensation curing liquid silicone adhesive potting compound, specifically designed to provide fast cure and adhesion at room temperature. It features a convenient mixing ratio of 10 to 1 by weight or 11 to 1 by volume for machine dispensing, excellent adhesion and is compatible with many sensitive substrates including copper, brass, aluminium, FR4 and plastics, making this an ideal option for many machine dispensed applications where fast curing and adhesion are paramount. Please contact your Regional Sales Manager for further information on dispensing machinery.

Important: please ensure that the B part is stored in a sealed container when not in use and avoid unnecessary exposure to the atmosphere.

<u>Properties</u>	<u>Laboratory Result</u>
Description A Part:	Black liquid
Description B Part:	Clear liquid
SG A Part:	1.10
SG B Part:	0.96
Mix Ratio by volume (A to B):	10 to 1
Mix Ratio by weight (A to B):	10 to 0.95
Viscosity A Part:	4400 mPa.s
Viscosity B Part:	100 mPa.s
Pot life:	20 minutes

Cured Properties at 23+/-2 °C and 45 to 55% Humidity

<u>Property</u>	<u>1 Day</u>	<u>7 days</u>
Shore A:	17	23
Tensile Strength, MPa		0.90
Elongation, %		270
Youngs Modulus, MPa:		0.23

Heat Accelerated Aged Properties, 220°C for 8 Days

<u>Property</u>	
Shore A	32
Tensile Strength, MPa	0.80
Elongation, %	96
Youngs Modulus, MPa	0.63

The information and recommendations in this publication are to the best of our knowledge reliable. However nothing herein is to be construed as a warranty or representation. Users should make their own tests to determine the applicability of such information or the suitability of any products for their own particular purposes. Statements concerning the use of the products described herein are not to be construed as recommending the infringement of any patent and no liability for infringement arising out of any such use is to be assumed.

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Electrical Properties

Volume Resistivity, Ω -cm:	1.09 x 10 ¹⁴
Dielectric Constant at 100Hz	3.32
Dielectric Constant at 1MHz	3.21
Dissipation Factor at 100Hz	0.0279
Dissipation Factor at 1MHz	0.0041

Thermal Properties

Thermal Conductivity, W/mK	0.20
Min. Temperature Resistance, °C	-50
Max. Temperature Resistance, °C	220
Flame Rating	results pending

Adhesion.

Ensure all substrates are clean and free of surface contaminants. ACC 52 Degreaser is recommended for metallic substrates and iso-propanol solvent is recommended for plastics and polycarbonates. SE2011 will develop a chemical bond will develop after 24 hours and maximum adhesion is reached after 7 days.

<u>Substrate</u>	<u>Adhesive Strength, Lap Shear, kg/cm²</u>
Copper	5.94
Aluminium	3.95

Packaging

SE2011 is available in 10 to 1 kit sizes. Please contact your Regional Sales Manager for more information.

Shelf Life and Storage

Expected shelf life is 6 months in original unopened containers, when stored at temperatures below 40°C

All of the above values are typical and must not be accepted as a specification.

This material is experimental and is being supplied for evaluation purposes only. Upon commercialisation, the name will be changed from an experimental material to a commercial grade name. Contact your ACC Silicones Europe salesperson before writing specifications around the experimental name.

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