## **TECHNICAL DATA SHEET**



24 mths

## QSil 550 2 part encapsulation and potting silicone

Description	Property	Test Method	Value
<ul> <li>QSil 500 series are 100% silicone solids elastomer designed for electronic potting and encapsulation applications. The two-component system offers a flame retardant, thermally conductive, low modulus material that is readily repairable.</li> <li>Key Features <ul> <li>Long pot life</li> <li>Low modulus and good elongation</li> </ul> </li> </ul>	Uncured Product Color A Color B Cure Profile Cure Type Density A	BS ISO 2781	Beige Black 7 mins at 150°C Addition 1.41
<ul> <li>275 C Max Working Temp, test method AFS1540B</li> <li>UL94 V0 listed in file No. E205830</li> </ul>	Density B	BS ISO 2781	1.41
Application	Gel Time at 25°C/77°F		130 min
QSil 550 is designed for potting electronics to provide	Mix Ratio By Weight Rheology		1:1 Liquid
environmental protection (e.g. Sterilization units). Suitable for higher working temperatures.	Self Bonding		No
Use and Cure Information	Viscosity Mixed	Brookfield	4000 cP
Mixing:	Cured Product		
In order to achieve optimum performance, the same lot number of A and B should be used. The A and B parts should be thoroughly	7 minutes at 150°C Color		0
mixed prior to catalyzation.	Elongation at Break	ISO 37	Grey 150 %
Mixing by hand: Catalyze the A part with the B part at the designated mix ratio by weight using a clean plastic or metal	Hardness Shore A	ASTM D 2240- 95	55
container of approximately 3 times the volume of the material and mix by hand. Accurate weighing of all components, on a suitable scale, is essential for optimal product performance when mixing by hand. Mix until the material is uniform with no visible striations.	Max Working Temp Min Working Temp		275 °C / 527 °F -55 °C / -67 °F
Mixing and dispensing with automatic equipment: Use a mixing system that will properly mix the A and B parts at the designated	Tear Resistance (N/mm) Tensile Strength	BS ISO 34-1 ISO 37	5.73 N/mm / 33 ppi 3.52 N/mm2 / 510 psi
ratio by weight.	Thermal Conductivity		~0.37 W/mK
De-aeration:	UL 94V-0 UL File No.		Yes E205830
Air trapped during mixing should be removed by vacuum at 29 inches of mercury. During the process, the material will expand,			E203030
and intermittent evacuation may be required. Machine mixed	Electrical Properties Dielectric Constant	ASTM D-150	3.12
material does not normally need to be de-aired. Health & Safety			3.12 20.3 kV/mm / 516
Safety Data Sheets available on request.	Dielectric Strength kV/mm	ASTM D-149	V/mil
Packaging	Dissipation Factor	ASTM D-150	0.003
CHT Encapsulating and potting compounds are available in a variety packaging including bulk containers. Please contact our	Volume Resistivity (Ohms cm)	ASTM D-257	1.47E+15 ohms cm
sales department for more information.	Storage		
Storage:	Max Storage Temperature		38 °C / 100 °F

This product is best when used within the "Use by Date". See product label and/or CoA for specific "Use by Date". Product

should be stored in its original, unopened container. Storage beyond the date specified on the label does not necessarily mean that the product is no longer usable. In this case, the properties required for the intended use should be checked for quality assurance reasons.

Shelf Life

Revision Date	24 May 2022
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