

SilSo Cool 21012 2-part thermally conductive encapsulant

Description	Property	Test Method	Value
Uncured Product			
This is a two-component, 100% silicone solids, thermally conductive elastomer designed for electronic potting and roller applications.	Appearance		white
Key Features	Color A		white
• Comparative Tracking Index (CTI) > 600 V (PLC 0)	Color B		white
Use and Cure Information	Density A	BS ISO 2781	2.3
IMPORTANT:	Density B	BS ISO 2781	2.3
The 'A' part of the product contains the platinum catalyst, great care should be taken when using automatic dispensing equipment. Please ensure that it is not contaminated by residual hydride containing rubber in the dispensing equipment, as curing will result. If in doubt, it's advised to thoroughly purge the equipment with a suitable hydrocarbon solvent or silicone fluid.	Max Cure Mins @ 100 °C		10 mins
Mixing	Mix Ratio By Weight		1:1
Both the 'A' and 'B' parts should be well stirred to ensure the material is uniform and any settled the fillers have been remixed. In order to achieve optimum performance, the same "A" and "B" side lot number should be used.	Pot Life hrs at 23°C/73°F		> 24 hours
Place the required amount of 'A' and 'B' parts by weight at the mix ratio shown opposite, in a clean plastic or metal container of approximately 3 times their volume, and mix until the color of the mixture is uniform. For best results, we recommend degassing. Degass by intermittent evacuation, the larger volume of the mixing vessel helps prevent overflow during this operation. In the case of automatic dispensing with static mixing head, the two components should be degassed before processing. Recommended vacuum conditions are 30-50 mbar intermittently over 5-10 minutes. Cast the mixture either by gravity or pressure injection.	Viscosity A	Brookfield	1500 cP
Inhibition of Cure	Viscosity B	Brookfield	1500 cP
Great care must be taken when handling and mixing all addition cured silicone elastomer systems, ensuring that all the mixing tools (vessels and spatulas) are clean and constructed in materials which do not interfere with the curing mechanism. The cure of the rubber can be inhibited by the presence of compounds of nitrogen, sulphur, phosphorus and arsenic; organotin catalysts and PVC stabilizers; epoxy resin catalysts and even contact with materials containing certain of these substances e.g. molding clays, sulphur vulcanized rubbers, condensation cure silicone rubbers, onion and garlic.	Viscosity Mixed	Brookfield	1500 cP
Curing Conditions	Cured Product		
The data offers a guide to the rate of cure at various temperatures, mixing of the components at temperatures between 15 and 25°C is recommended to ensure adequate pot life for degassing and handling. The pot life can be extended to several hours by chilling the components before mixing.	Color		White
It is important to check the compatibility in preliminary tests if unknown substrates are used.	Density	BS ISO 2781	2.3 g/cm3
Health & Safety	Elongation at Break	ISO 37	10 %
Safety Data Sheets available on request.	Hardness Shore 00	ASTM D 2240-95	71
	Tear Resistance (N/mm)	BS ISO 34-1	< 2 N/mm / 0 ppi
	Tensile Strength	ISO 37	< 2 N/mm2 / 0 psi
	Thermal Conductivity		1.3 W/mK

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