

QM 270 2 part moldmaking material

Description	Property	Test Method	Value
This is a pourable 2-part addition cure silicone elastomer system. After mixing parts 'A' and 'B' in the correct proportions, the system will cure at ambient temperatures within 24 hours, but the rate of cure can be accelerated by heat. The cured rubber exhibits excellent physical and electrical properties.	Uncured Product		
	Color A		Beige
Key Features	Color B		Clear
	Cure Profile		RTV heat accelerated
<ul style="list-style-type: none"> High durometer Casting resin resistance Fast de-mold time, excellent dimensional stability Heat is required to achieve 70 Shore A durometer 	Cure Type		Addition
	De-mould Time / Full Cure at 23°C/73°F: hrs		8 - 12 hrs
Application	Mix Ratio By Weight		10:1
	Rheology		Liquid
Architectural replication, furniture, picture frames, prototypes	Specific Gravity A		1.33
	Specific Gravity B		1.01
Use and Cure Information	Viscosity A	Brookfield	75,000 cP
	Viscosity B	Brookfield	500 cP
IMPORTANT:	Viscosity Mixed	Brookfield	50,000 cP
	Work life at 25°C to Double Initial Viscosity		70 minutes
The 'A' part of 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.	Cured Product		
Mixing	3 days at 25°C		
	Color		Beige
Both the 'A' and 'B' parts should be well stirred to ensure the material is uniform and any settlement of the fillers have been remixed. 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 colour of the mixture is uniform. For best results, we recommend degassing. Degas by intermittent evacuation, the larger volume of the mixing vessel helps prevent overflow during this operation. In 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. In order to achieve optimum performance, the same "A" and "B" side lot number should be used.	Elongation at Break	ISO 37	110 %
	Hardness Shore A	ASTM D 2240-95	62
Inhibition of Cure	Linear Shrinkage (%)		<0.1 %
	Max Working Temp		204 °C / 399 °F
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. moulding clays, sulphur vulcanised rubbers, condensation cure silicone rubbers, onion and garlic.	Min Working Temp		-55 °C / -67 °F
	Tear Resistance (N/mm)	BS ISO 34-1	17.4 N/mm / 99 psi
Curing Conditions	Tensile Strength	ISO 37	6.9 N/mm ² / 1001 psi
	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.		
Health & Safety	Max Storage Temperature		38 °C / 100 °F
	Shelf Life		24 mths

Safety Data Sheets available on request.

Packaging

CHT Moulding Rubbers are available in a variety packaging including bulk containers. Please contact our sales department for more information.

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