

QSil 244 45 Shore A, Thermally Conductive, Industrial Silicone Elastomer

Description	Property	Test Method	Value
QSil 244 is a 100% addition-cured silicone designed for industrial applications where good thermal conductivity is required. This two-component product cures to a hard, low modulus elastomer that is readily repairable.	Uncured Product		
Key Features	Color A		Brown
<ul style="list-style-type: none"> Solvent Free High thermal conductivity Heat cured Repairable 	Color B		Brown
Application	Cure Type		Addition
<ul style="list-style-type: none"> Rollers Electronic potting applications Thermal interface materials Thermally conductive coatings. 	Gel Time at 25°C/77°F		>24 hr
Use and Cure Information	Mix Ratio By Weight		1:1
<u>Cure Profile</u>	Rheology		Liquid
20 minutes at 150°C	Specific Gravity A		2.2
40 minutes at 120°C	Specific Gravity B		2.2
<u>Mixing</u>	Viscosity A	Brookfield	140,000 cP
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 mixed prior to catalyzation.	Viscosity B	Brookfield	140,000 cP
Mixing by hand: Catalyze the A part with the B part at the designated mix ratio by weight using a clean plastic or metal 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.	Viscosity Mixed	Brookfield	140,000 cP
Mixing and dispensing with automatic equipment: Use a mixing system that will properly mix the A and B parts at the designated ratio by weight.	Cured Product		
<u>De-aeration</u>	Cured 30 min @ 150C and tested at room temperature		
Air trapped during mixing should be removed by vacuum at 29 inches of mercury. During the process, the material will expand, and intermittent evacuation may be required. Machine mixed material does not normally need to be de-aired.	Color		Brown
Health & Safety	Elongation at Break	ISO 37	75 %
Safety Data Sheets available on request.	Hardness Shore A	ASTM D 2240-95	45
<u>Packaging</u>	Max Working Temp		204 °C / 399 °F
CHT Encapsulating and potting compounds are available in a variety packaging including bulk containers. Please contact our sales department for more information.	Min Working Temp		-55 °C / -67 °F
<u>Storage</u>	Tensile Strength	ISO 37	1.55 N/mm² / 225 psi
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.	Thermal Conductivity		0.88 W/mK
	Storage		
	Max Storage Temperature		38 °C / 100 °F
	Shelf Life		24 mths

Revision Date 14 Sep 2021
 Revision No 13
 Download Date 12 Aug 2022