TECHNICAL DATA SHEET



QGel 311 General Purpose Silicone Gel

Description

Description	Property	Test Method	Value
QGels are addition-cure clear, soft, moderately cross-linked silicone polymer. Silicone gels provide protection from moisture,	Uncured Product	Method	
vibration, thermal, or mechanical shock.	Cure Profile		5 mins at 150°C, 10 mins at
Key Features1:1 mix ratio	Cure Type		100°C, 90 mins at 25°C Addition
 90 minute room temperature cure, 5-minute cure at 150°C/302°F 	Density A	BS ISO 2781	0.97
Soft, but resilient gelDesigned for automatic mixing and dispensing	Density B	BS ISO 2781	0.97
Use and Cure Information Important	Gel Time at 25°C/77°F	2701	3 min
In order to achieve optimum performance, the same lot number of the A and B components should be used. Mixed lots may not	Mix Ratio By Weight Rheology		1:1 Gel
obtain the performance criteria listed on the TDS or Certificate of Analysis.	Viscosity A Viscosity B	Brookfield Brookfield	
The "A" part of QGels contain the platinum catalyst; great care should be taken when using automated dispensing equipment to not cross-contaminate systems.	Cured Product		Transparent
Mixing	Max Working Temp		204 °C / 399 °F
Both the "A" and "B" parts should be well stirred to ensure the	Min Working Temp		-55 °C / -67 °F
material is uniform. QGels should be mixed by weight. Once the components are mixed, the curing process begins. The gel time of the mixed material is listed under the typical properties. Fast	Penetration (19.5g Cone Weight) mm		5 - 9 mm
curing gels should be dispensed utilizing automated mix and	Storage		
dispensing equipment. In order to achieve optimum performance, the same "A" and "B" side lot numbers should be used.	Max Storage Temperature		38 °C / 100 °F
	Shelf Life		24 mths

De-Aeration

Air trapped during mixing should be removed to eliminate voids in the cured product. Vacuum de-airing may be necessary to completely remove all entrapped air bubbles. To ensure proper de-airing, subject the mixed material to 29 inches of mercury.

Storage and Shelf-life

This product is best when used within 24 months from the date of manufacture, See product label and/or the CoA for specific "use by date". Product should be stored in its original, unopened container in an environment that does not exceed 38C (100F)

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.

Revision Date 10 Nov 2021 **Revision No** 5 Download Date 02 May 2024

CHT Germany GmbH: Postfach 12 80, 72002 Tübingen, Bismarckstraße 102, 72072 Tübingen, Germany

Telephone: 07071/154-0, Fax: 07071/154-290, Email: info@cht.com, Homepage: www.cht.com / www.cht.silicones.com

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