

QGel 311

Characterization

QGel 311 is a clear, very soft, tough, moderately cross-linked silicone polymer. Silicone gels are used to provide protection from vibration, thermal or mechanical shock. Silicone gels also provide excellent moisture protection.

Technical Data

	QGel 311A Component A	QGel 311B Component B		
Colour	Transparent	Transparent		
Viscosity	1,000	1,000	Cps	Viscosity
SG	0.97	0.97		SG
	Catalysed Mass			
Mixing ratio	1:1		according to weight	
Gel Time*	3		min	
Max Cure at 25°C	90		min	
Max Cure at 100°C	10		min	
Max Cure at 150°C	5		min	
	Vulcanisate after 30 minutes at 150°C			
Working Temp.	- 55 to 204		°C	Working Temp.
Penetration	5-9		mm	
Adhesion	Silicone gels have a tacky surface and will form a mechanical bond to most substrates			
	Electrical properties			
	Excellent dielectric strength			

* Gel time is defined as the time required for the material to become a solid or a semi-solid.

The above given values are product describing data. Please consult the 'delivery specification' for binding product specifications. Further data about product properties, toxicological, ecological data as well as data relevant to safety can be found in the safety data sheet.

Storability / Storage

This product is best when used within 24 months from date of manufacture. See product label and/or CoA for specific "Use By Date".

Product should be stored in its original, unopened container in an environment that does not exceed 38 °C (100 °F).

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.

Properties

- One to one mix ratio
 - 90 minute room temperature cure
 - 5 minute cure at 150°C
 - Soft, but resilient gel
 - Designed for automatic mixing and dosing
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Application Technique

Application

Mixing

QGel 311 should be thoroughly mixed using a 1:1 ratio by weight. Once the components are mixed, the curing process begins. The gel time of the mixed material is listed above under typical properties. Fast curing gels (gel time of less than 30 min) should be dosed utilizing automated mixing and dosing equipment.

Deaeration

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

Safety

Please observe our EC safety data sheets and the safety remarks on our container labels when handling our products. The dangerous goods regulations and the accident prevention regulations of the professional associations must be particularly observed. Keep the EC safety data sheet of the applied product at hand since it provides you with useful instructions for the safe use and disposal of the product as well as for actions to be taken in case of accidents.

We reserve the right to modify the product and technical leaflet.

Our department for applied technique is always at your service for further information and advice.

Our technical advice and recommendations given verbally, in writing or by trials are believed to be correct. They are neither binding with regard to possible rights of third parties nor do they exempt you from your task of examining the suitability of our products for the intended use. We cannot accept any responsibility for application and processing methods which are beyond our control.

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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