

QGel 303 Fast Curing, High Strength Silicone Gel

Description

QGels are addition-cure clear, soft, moderately cross-linked silicone polymer. Silicone gels provide protection from moisture, vibration, thermal, or mechanical shock.

Key Features

- Soft gel
- 1:1 mix ratio
- Fast 9-minute gel time at room temperature

Use and Cure Information

Important

In order to achieve optimum performance, the same lot number of the A and B components should be used. Mixed lots may not obtain the performance criteria listed on the TDS or Certificate of Analysis.

The "A" part of QGels contain the platinum catalyst; great care should be taken when using automated dispensing equipment to not cross-contaminate systems.

Mixing

Both the "A" and "B" parts should be well stirred to ensure the 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 curing gels should be dispensed utilizing automated mix and dispensing equipment. In order to achieve optimum performance, the same "A" and "B" side lot numbers should be used.

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 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.

Property	Test Method	Value
Uncured Product		
Cure Profile		30 min at 150°C, 60 min at 25°C
Cure Type		Addition
Density A	BS ISO 2781	0.97
Density B	BS ISO 2781	0.97
Gel Time at 25°C/77°F		9 min
Mix Ratio By Weight		1:1
Rheology		Gel
Viscosity A	Brookfield	700 cP
Viscosity B	Brookfield	750 cP
Work life at 25°C to Double Initial Viscosity		4 min
Cured Product		
Color		Purple
Penetration (19.5g Cone Weight) mm		4 - 8 mm
Electrical Properties		
Dielectric Constant	ASTM D-150	2.8
Dielectric Strength (V/mil)		500 V/mil
Dissipation Factor	ASTM D-150	0.001
Volume Resistivity (Ohms cm)	ASTM D-257	1E+15 ohms cm
Storage		
Max Storage Temperature		38 °C / 100 °F
Shelf Life		24 mths

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