Dow Corning® QP1-2XX*
Liquid Silicone Rubber Products

*Dow Corning® QP1-230 Liquid Silicone Rubber Kit
*Dow Corning® QP1-240 Liquid Silicone Rubber Kit
*Dow Corning® QP1-250 Liquid Silicone Rubber Kit
*Dow Corning® QP1-260 Liquid Silicone Rubber Kit
*Dow Corning® QP1-270 Liquid Silicone Rubber Kit

XX = 30, 40, 50, 60 or 70

FEATURES & BENEFITS

- Contains no peroxides, peroxide by-products, chlorophenyls, or PCBs
- No organic plasticizers, phthalates or latex
- Solventless
- Non-blooming
- Pigmentable
- Formulated to meet European requirements for food contact applications
- Improved rheology
- Lower, balanced viscosity
- Easy processing with reduced cycle time
- Long pot life
- Fast Cure System
- Batch-to-batch consistency
- USP Class VI
- Tissue Culture testing warranted

COMPOSITION

- Two part silicone elastomer

Liquid Silicone Rubber materials for device and component fabrication in the healthcare industry.

APPLICATIONS

- Dow Corning® QP1-2XX Liquid Silicone Rubbers (LSRs) are platinum-catalyzed, heat-cured materials designed for the fabrication of medical devices and device components and for short term applications.

DESCRIPTION

*Dow Corning® QP1-2XX LSRs are a series of two-part platinum-catalyzed silicone elastomers specifically designed for liquid injection molding. Each elastomer is supplied in a two-part kit (Part A and Part B), equal portions (by weight) of which must be thoroughly blended together prior to use. The elastomer is thermally cured via an addition-cure (platinum-catalyzed) reaction. When blended and cured as indicated, the resulting elastomer consists of cross-linked dimethyl and methyl-vinyl siloxane copolymers and reinforcing silica.

HOW TO USE

Mixing and de-airing

*Dow Corning® QP1-2XX LSRs are supplied as two-component kits (Parts A and B), which must be mixed in equal portions, by weight, prior to use.

Mixing parts A and B at anything other than a 1:1 ratio will likely change the molding times, and the resulting material’s properties.

Airless mixing, metering, and dispensing equipment are recommended for production operations.

Pot life

When parts A and B are mixed the mixture will remain usable for 72 hours at 25°C (77°F).

Cure

Cure of the mixed elastomer is initiated by heat. Raising the temperature of the fabrication to 140°C (284°F) results in a rapid cure to a tough elastomeric material.
The cure time depends on the thickness and the cure temperature used.

Cure profiles for these products can be found in Figure 1.

CAUTION: The cure may be inhibited by traces of amines, sulfur, nitrogen oxide, organotin compounds and carbon monoxide. Because organic rubbers often contain these substances, they should not come into contact with the uncured elastomer. Catalyst residues from some room temperature vulcanized and peroxide-cured silicone elastomers may also inhibit the cure.

Post-curing
These materials cross-link via an addition-cure (platinum catalyzed) reaction. No organic residues, such as peroxides or their by-products, are present and post-cure is not normally required for most applications. The user must confirm that molding conditions or short oven cures are suitable for any specific application.

See Typical Properties chart (Table 1) for specific post-cure information.

USABLE LIFE AND STORAGE
Shelf life is indicated by the “Use Before” date found on the product label, when stored at or below 35°C (95°F) in the original unopened containers. The most up-to-date shelf life information can be found on the respective Sales Specification.

PACKAGING INFORMATION
The Dow Corning QP1-2XX LSRs are supplied in 40 kg pail and 410 kg drum kits, each containing equal portions of part A and B.

LIMITATIONS
Dow Corning has completed a one-time test of Dow Corning QP1-2XX products according to the United States Pharmacopeia (USP) Class VI. The limit of information available from Dow Corning for support of these results is a certificate which indicates the product has been tested and did pass.

*IMPORTANT INFORMATION THE USER’S ATTENTION IS IN PARTICULAR DRAWN TO THE FOLLOWING STATEMENT: It is the User’s responsibility to ensure the safety, efficacy, legal, and regulatory compliance of these materials for its intended uses. Dow Corning makes no representation concerning the suitability of these products for any particular medical or pharmaceutical application. Under no circumstances should these materials be considered for implantation into the human body for periods that exceed 30 days in duration.

HEALTH AND ENVIRONMENTAL INFORMATION
To support customers in their product safety needs, Dow Corning has an extensive Product Stewardship organization and a team of Product Safety and Regulatory Compliance (PS&RC) specialists available in each area.

For further information, please see our website, dowcorning.com or consult your local Dow Corning representative.

LIMITED WARRANTY INFORMATION – PLEASE READ CAREFULLY
The information contained herein is offered in good faith and is believed to be accurate. However, because conditions and methods of use of our products are beyond our control, this information should not be used in substitution for customer’s tests to ensure that our products are safe, effective, and fully satisfactory for the intended end use. Suggestions of use shall not be taken as inducements to infringe any patent.

Dow Corning’s sole warranty is that our products will meet the sales specifications in effect at the time of shipment.

Your exclusive remedy for breach of such warranty is limited to refund of purchase price or replacement of any product shown to be other than as warranted.

TO THE FULLEST EXTENT PERMITTED BY APPLICABLE LAW, DOW CORNING SPECIFICALLY DISCLAIMS ANY OTHER EXPRESS OR IMPLIED WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE OR MERCHANTABILITY.

DOW CORNING DISCLAIMS LIABILITY FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES.

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Figure 1: Moving Die Rheometry Data

![Moving Die Rheometer Data](image)

1Rheological properties measured with the Alpha technologies Rheometer MDR 2000. Rheometer conditions: 120°C (248°F), 6 minutes sweep time, 5.0 gram sample weight.

TABLE 1: TYPICAL PROPERTIES

Specification Writers: These values are not intended for use in preparing specifications. Please contact your local Dow Corning sales office or your Global Dow Corning Connection before writing specifications on this product.

<table>
<thead>
<tr>
<th>CTM1</th>
<th>ASTM2</th>
<th>Property Description</th>
<th>Unit</th>
<th>Dow Corning® QP1-2XX LSRs Results</th>
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1CTM: Corporate Test Method, copies of CTMs are available upon request.
### TABLE 1: TYPICAL PROPERTIES (continued)

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