

RTV-2 GI-184B/GI-179A

Silicone Rubber, RTV-2

Silicones, Inc.

Message:

GI-184B is a high strength, tin-catalyzed, RTV-2 silicone rubber, that can be made thixotropic (non-flowing) with the use of GI-Thixotropic Activator. It has a small amount of flow to allow for some air release when poured, trowelled, brushed or sprayed onto the pattern. It will attain sufficient thixotropy to build enough wall thickness for a good skin mold. GI-184B has been designed to work with silicone rubber spray equipment.

GI-184B can be used with other GI Activators to give good flow characteristics so an initial skin coat may be applied over the pattern to eliminate any trapped air at the mold surface. Generally, the quick curing Activators (GI-Fast Catalyst or GI-Ultra Fast Catalyst) are used for this prime coat. GI-184 can be used with GI-1000A, GI-179A, GI-800A or GI-2020A to pour conventional molds (all mixed 100 to 10 by weight). GI-184 is not sensitive to inhibition, meaning it will cure at room temperature over virtually any surface. GI-184 is extremely useful for vertical or overhead applications where superior mechanical properties are required.

| General Information | | | |
|---------------------------------------|---------------|-------|-------------|
| Features | High Strength | | |
| | Low Flow | | |
| | Thixotropic | | |
| Forms | Liquid | | |
| Physical | Nominal Value | Unit | |
| Specific Gravity | 1.16 | g/cm³ | |
| Shrinkage - Cured | 0.10 | % | |
| Coverage - Cured | 0.860 | cm³/g | |
| Thermoset | Nominal Value | Unit | Test Method |
| Shelf Life | 26 | wk | |
| Uncured Properties | Nominal Value | Unit | Test Method |
| Color | | | |
| -- 1 | Turquoise | | |
| -- 2 | White | | |
| Viscosity | | | |
| -- 3 | 0.30 to 0.40 | Pa·s | |
| -- 4 | 85 to 95 | Pa·s | |
| Curing Time | 16 to 18 | hr | |
| Pot Life | | | |
| -- 5 | 30 to 45 | min | |
| -- 6 | 90 to 120 | min | |
| Cured Properties | Nominal Value | Unit | Test Method |
| Shore Hardness ⁷ (Shore A) | 19 to 27 | | |
| Tensile Strength | 2.45 to 2.79 | MPa | ASTM D412 |
| Tensile Elongation at Break | 520 to 570 | % | ASTM D412 |
| Tear Strength | 15.8 to 19.3 | kN/m | ASTM D624 |
| NOTE | | | |

| | |
|----|-----------|
| 1. | Activator |
| 2. | Base |
| 3. | Activator |
| 4. | Base |
| 5. | Mixed |
| 6. | Base |
| 7. | 7 Days |

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