

BJB Silicone TC-5045 A/B

Silicone

BJB Enterprises, Inc.

Message:

TC-5045 A/B is a room temperature, addition/platinum curing silicone rubber designed for mold making, encapsulation applications, pressure pads, gaskets, and various types of parts. It is an excellent mold making material for casting low melting metals in continuous operations to 650°F (344°C) and sporadic applications of 850°F (454°C). TC-5045 A/B has proven to be less inhibited in its cure than standard platinum based silicones. It has a very favorable CTE for heat expandable mandrels used in composite tooling.

| General Information | | | |
|-------------------------------|------------------|-------------------|-------------------|
| Uses | Gaskets | | |
| | Molds/Dies/Tools | | |
| Appearance | Opaque | | |
| | Pink | | |
| Forms | Liquid | | |
| Physical | Nominal Value | Unit | Test Method |
| Specific Gravity | 1.33 | g/cm ³ | ASTM D792 |
| Specific Gravity | | | |
| | Part A | 1.377 | g/cm ³ |
| | Part B | 1.027 | g/cm ³ |
| Shrinkage | Nil | | ASTM D2566 |
| Demold Time | | | |
| | 25°C | 16.0 to 24.0 | hr |
| | 66°C | 2.0 to 4.0 | hr |
| Gel Time | 1.0 | hr | |
| Work Time (25°C) ¹ | 45.0 | min | |
| Brookfield Viscosity | | | |
| | Mixed : 25°C | 25.5 | Pa · s |
| | Part A : 25°C | 56.9 | Pa · s |
| | Part B : 25°C | 0.900 | Pa · s |
| Hardness | Nominal Value | Unit | Test Method |
| Durometer Hardness (Shore A) | 40 to 50 | | ASTM D2240 |
| Elastomers | Nominal Value | Unit | Test Method |
| Tensile Strength (Yield) | 5.21 | MPa | ASTM D412 |
| Tensile Elongation (Break) | 400 | % | ASTM D412 |
| Tear Strength ² | 16.8 | kN/m | ASTM D624 |
| Thermal | Nominal Value | Unit | Test Method |
| CLTE - Flow | 9.0E-4 | cm/cm/°C | ASTM E831 |
| Electrical | Nominal Value | | Test Method |

| Dielectric Constant | | ASTM D150 |
|----------------------|--------------------------|-----------|
| 100 Hz | 3.19 | |
| 100 kHz | 3.14 | |
| Dissipation Factor | | ASTM D150 |
| 100 Hz | 5.4E-3 | |
| 100 kHz | 1.4E-3 | |
| Thermoset | Nominal Value | Unit |
| Thermoset Components | | |
| Part A | Mix Ratio by Weight: 100 | |
| Part B | Mix Ratio by Weight: 10 | |
| Shelf Life | 26 | wk |
| NOTE | | |
| 1. | 100 g mass | |
| 2. | Die B | |

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