

# INSULCAST® RTVS 3-95-1

Silicone Rubber, RTV-2

ITW Polymers Coatings North America

## Message:

INSULCAST RTVS 3-95-1 is a low viscosity, thermally conductive RTV silicone compound, UL recognized under file E86165 for flame class 94V-0.

| General Information          |                          |          |             |
|------------------------------|--------------------------|----------|-------------|
| UL YellowCard                | E86165-252004            |          |             |
| Features                     | Low Viscosity            |          |             |
|                              | Thermally Conductive     |          |             |
| UL File Number               | E86165                   |          |             |
| Processing Method            | Potting                  |          |             |
| Hardness                     | Nominal Value            |          | Test Method |
| Durometer Hardness (Shore A) | 65                       |          | ASTM D2240  |
| Elastomers                   | Nominal Value            | Unit     | Test Method |
| Tensile Strength             | 3.28                     | MPa      | ASTM D412   |
| Tensile Elongation (Break)   | 45                       | %        | ASTM D412   |
| Tear Strength <sup>1</sup>   | 2.63                     | kN/m     | ASTM D624   |
| Thermal                      | Nominal Value            | Unit     |             |
| CLTE - Flow                  | 1.8E-4                   | cm/cm/°C |             |
| Thermal Conductivity         | 1.4                      | W/m/K    |             |
| Service Temperature          | -55 to 260               | °C       |             |
| Electrical                   | Nominal Value            | Unit     | Test Method |
| Volume Resistivity           | 5.0E+14                  | ohms·cm  | ASTM D257   |
| Dielectric Strength          | 20                       | kV/mm    | ASTM D149   |
| Dielectric Constant (1 kHz)  | 5.00                     |          | ASTM D150   |
| Dissipation Factor (1 kHz)   | 5.0E-3                   |          | ASTM D150   |
| Flammability                 | Nominal Value            | Unit     | Test Method |
| Flame Rating                 | V-0                      |          | UL 94       |
| Thermoset                    | Nominal Value            | Unit     | Test Method |
| Thermoset Components         |                          |          |             |
| Part A                       | Mix Ratio by Weight: 100 |          |             |
| Part B                       | Mix Ratio by Weight: 5.0 |          |             |
| Shelf Life (25°C)            | 26                       | wk       |             |
| Uncured Properties           | Nominal Value            | Unit     | Test Method |
| Color                        |                          |          |             |
| -- <sup>2</sup>              | Clear/Transparent        |          |             |
| -- <sup>3</sup>              | Red                      |          |             |
| Density                      |                          |          |             |

|                              |       |                   |            |
|------------------------------|-------|-------------------|------------|
| -- <sup>4</sup>              | 0.958 | g/cm <sup>3</sup> |            |
| -- <sup>5</sup>              | 2.34  | g/cm <sup>3</sup> |            |
| Viscosity                    |       |                   | ASTM D2393 |
| 25°C <sup>6</sup>            | 1.0   | Pa·s              |            |
| -- <sup>7</sup>              | 10    | Pa·s              |            |
| 25°C <sup>8</sup>            | 15    | Pa·s              |            |
| Curing Time                  |       |                   |            |
| 125°C                        | 0.25  | hr                |            |
| 90°C                         | 1.0   | hr                |            |
| 50°C                         | 4.0   | hr                |            |
| 25°C                         | 24    | hr                |            |
| Pot Life <sup>9</sup> (25°C) | 90    | min               |            |

#### NOTE

- |    |               |
|----|---------------|
| 1. | Die B         |
| 2. | Part B        |
| 3. | Part A        |
| 4. | Part B        |
| 5. | Part A        |
| 6. | Part B        |
| 7. | Mixed         |
| 8. | Part A        |
| 9. | 100 gram mass |

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