

Master Bond MasterSil 708FR One Part, Flame Resistant Silicone

Category : Polymer , Thermoset , Silicone

Material Notes:

Description: MasterSil 708FR is a one component, high performance RTV silicone that is mainly used for its flame retardancy. It is UL listed with a flame classification for 94V.1 for thicknesses of 0.75 mm and 94V.0 for a 3 mm thickness. It adheres well to a wide variety of substrates including glass, metals and many plastics. The rapidity of the cure depends on the thickness of the layer and the humidity; the thicker the layer the slower the cure. It is exceptionally soft with good elasticity and flexibility, and outstanding electrical insulation properties. Most importantly, it is non-corrosive, fast setting, and has a flowable consistency. MasterSil 708FR is serviceable over the broad temperature range of -45°C to +200°C, as per UL specifications, and is gray in color. Information provided by MasterBond®

Order this product through the following link:

http://www.lookpolymers.com/polymer_Master-Bond-MasterSil-708FR-One-Part-Flame-Resistant-Silicone.php

| Physical Properties | Metric | English | Comments |
|---------------------|------------------|------------------|----------|
| Specific Gravity | 1.20 g/cc | 1.20 g/cc | |
| Viscosity | 25000 - 45000 cP | 25000 - 45000 cP | |

| Mechanical Properties | Metric | English | Comments |
|---------------------------|-----------------|---------------|-------------------|
| Hardness, Shore A | 30 - 40 | 30 - 40 | |
| Tensile Strength at Break | 2.07 - 2.76 MPa | 300 - 400 psi | |
| Elongation at Break | 200 - 300 % | 200 - 300 % | |
| Shear Strength | 1.03 - 1.38 MPa | 150 - 200 psi | Tensile, Al to Al |

| Thermal Properties | Metric | English | Comments |
|----------------------------------|----------|----------|----------|
| Maximum Service Temperature, Air | 93.3 °C | 200 °F | |
| Minimum Service Temperature, Air | -42.8 °C | -45.0 °F | |

| Electrical Properties | Metric | English | Comments |
|-----------------------|---|---|----------|
| Volume Resistivity | 3.00e+14 ohm-cm | 3.00e+14 ohm-cm | |
| Dielectric Constant | 3.2 @Frequency 60.0 Hz, Temperature 25.0 °C | 3.2 @Frequency 60.0 Hz, Temperature 77.0 °F | |
| Dielectric Strength | 23.6 kV/mm @Thickness 3.17 mm | 600 kV/in @Thickness 0.125 in | |
| Dissipation Factor | 0.010 | 0.010 | |

| Electrical Properties | Metric @Frequency 60.0 Hz, Temperature 25.0 °C | English @Frequency 60.0 Hz, Temperature 77.0 °F | Comments |
|------------------------|--|---|---------------------------------|
| Processing Properties | Metric | English | Comments |
| Cure Time | 10.0 - 15.0 min | 0.167 - 0.250 hour | Tack-free time |
| Shelf Life | 6.00 Month @Temperature 23.9 °C | 6.00 Month @Temperature 75.0 °F | in original unopened containers |
| Descriptive Properties | Value | | Comments |
| Appearance | gray | | |

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