

## ITW Devcon Plastic Steel® Metal Repair 5 Minute® Putty (SF), Dark Grey

Category : Polymer , Adhesive , Thermoset

### Material Notes:

Information provided by ITW Devcon

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_ITW-Devcon-Plastic-Steel-Metal-Repair-5-Minute-Putty-SF-Dark-Grey.php](http://www.lookpolymers.com/polymer_ITW-Devcon-Plastic-Steel-Metal-Repair-5-Minute-Putty-SF-Dark-Grey.php)

| Physical Properties | Metric    | English                   | Comments |
|---------------------|-----------|---------------------------|----------|
| Density             | 2.27 g/cc | 0.0820 lb/in <sup>3</sup> |          |

| Mechanical Properties     | Metric    | English   | Comments                  |
|---------------------------|-----------|-----------|---------------------------|
| Hardness, Shore D         | 85        | 85        | Cured; ASTM D2240         |
| Tensile Strength at Break | 21.4 MPa  | 3100 psi  | ASTM D638                 |
| Modulus of Elasticity     | 5.17 GPa  | 750 ksi   | ASTM D638                 |
| Flexural Strength         | 53.0 MPa  | 7680 psi  | ASTM D790                 |
| Compressive Strength      | 71.7 MPa  | 10400 psi | ASTM D695                 |
| Adhesive Bond Strength    | 13.97 MPa | 2026 psi  | tensile shear; ASTM D1002 |

| Thermal Properties               | Metric                                                                            | English                                                                             | Comments          |
|----------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------|
| CTE, linear                      | 61.2 $\mu\text{m/m}\cdot^{\circ}\text{C}$<br>@Temperature 20.0 $^{\circ}\text{C}$ | 34.0 $\mu\text{in/in}\cdot^{\circ}\text{F}$<br>@Temperature 68.0 $^{\circ}\text{F}$ | ASTM D696         |
| Thermal Conductivity             | 1.11 W/m-K                                                                        | 7.68 BTU-in/hr-ft $^2\cdot^{\circ}\text{F}$                                         | ASTM C177         |
| Maximum Service Temperature, Air | 93.3 $^{\circ}\text{C}$                                                           | 200 $^{\circ}\text{F}$                                                              | dry               |
| Shrinkage                        | 0.060 %                                                                           | 0.060 %                                                                             | Cured; ASTM D2566 |

| Electrical Properties | Metric                   | English                  | Comments  |
|-----------------------|--------------------------|--------------------------|-----------|
| Dielectric Constant   | 35<br>@Frequency 1000 Hz | 35<br>@Frequency 1000 Hz | ASTM D150 |
| Dielectric Strength   | 1.18 kV/mm               | 30.0 kV/in               | ASTM D149 |

| Processing Properties | Metric   | English   | Comments        |
|-----------------------|----------|-----------|-----------------|
| Cure Time             | 60.0 min | 1.00 hour | Functional cure |

| Processing Properties | Metric                   | English               | Comments |
|-----------------------|--------------------------|-----------------------|----------|
| Pot Life              | @Temperature 23.9<br>Â°C | @Temperature 75.0 Â°F |          |

| Descriptive Properties                    | Value | Comments |
|-------------------------------------------|-------|----------|
| Coverage per pound, inÂ² @ 1/4" thickness | 49    |          |
| Mix ratio by volume (Resin:Hardener)      | 1:1   |          |
| Mix ratio by weight (Resin:Hardener)      | 1.7:1 |          |

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