

## Abatron AboCast 8110-6/AboCure 8110-1 Flexible Epoxy

Category : Polymer , Adhesive , Thermoset , Epoxy , Epoxy Adhesive, Flexible

### Material Notes:

This epoxy system can achieve flexibility and plasticity without sacrificing adhesive, electrical, structural, and other properties. This compound is a clear (unfilled) basic formulation. Its applications include: bonding, laminating, casting, embedding, electrical potting, impregnating, coating, etc. It can be supplied in several variations to modify viscosity, reaction rate, color, most physical and chemical properties, and with many fillers to meet most requirements.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Abatron-AboCast-8110-6AboCure-8110-1-Flexible-Epoxy.php](http://www.lookpolymers.com/polymer_Abatron-AboCast-8110-6AboCure-8110-1-Flexible-Epoxy.php)

| Physical Properties | Metric         | English         | Comments                   |
|---------------------|----------------|-----------------|----------------------------|
| Water Absorption    | 2.5 %          | 2.5 %           | boil; cured 2 hours @ 93°C |
|                     | @Time 7200 sec | @Time 2.00 hour |                            |
| Viscosity           | 2000 cP        | 2000 cP         |                            |

| Mechanical Properties      | Metric                | English               | Comments                                       |
|----------------------------|-----------------------|-----------------------|------------------------------------------------|
| Hardness, Shore D          | 75                    | 75                    | cured 2 hrs. @ 93°C                            |
|                            | @Temperature 75.0 °C  | @Temperature 167 °F   |                                                |
|                            | 83                    | 83                    | cured 2 hrs. @ 93°C                            |
|                            | @Temperature 25.0 °C  | @Temperature 77.0 °F  |                                                |
|                            | 87                    | 87                    | cured 2 hrs. @ 93°C                            |
|                            | @Temperature 0.000 °C | @Temperature 32.0 °F  |                                                |
|                            | 90                    | 90                    | cured 2 hrs. @ 93°C                            |
|                            | @Temperature -60.0 °C | @Temperature -76.0 °F |                                                |
| Tensile Strength, Ultimate | 43.33 MPa             | 6285 psi              | cured 2 hours @ 93°C                           |
|                            | 58.16 MPa             | 8435 psi              | cured 8 hours @ 93°C                           |
| Elongation at Break        | 11 %                  | 11 %                  | cured 8 hours @ 93°C                           |
|                            | 13 %                  | 13 %                  | cured 2 hours @ 93°C                           |
| Shear Strength             | 12.2 MPa              | 1770 psi              | Tensile, Al/Al lap joint; cured 2 hours @ 93°C |
|                            | @Temperature 75.0 °C  | @Temperature 167 °F   |                                                |
|                            | 28.9 MPa              | 4190 psi              | Tensile, Al/Al lap joint; cured 2 hours @ 93°C |
|                            | @Temperature 0.000 °C | @Temperature 32.0 °F  |                                                |
|                            | 41.9 MPa              | 6080 psi              |                                                |

| Mechanical Properties | Metric                | English               | Comments                                        |
|-----------------------|-----------------------|-----------------------|-------------------------------------------------|
|                       | @ Temperature 25.0 °C | @ Temperature 77.0 °F | Tensile, Al/Al lap joint; cured 2 hours @ 93 °C |

| Electrical Properties | Metric               | English              | Comments             |
|-----------------------|----------------------|----------------------|----------------------|
| Volume Resistivity    | 7.90e+7 ohm-cm       | 7.90e+7 ohm-cm       | cured 2 hours @ 93°C |
|                       | @Temperature 150 °C  | @Temperature 302 °F  |                      |
|                       | 7.70e+8 ohm-cm       | 7.70e+8 ohm-cm       | cured 2 hours @ 93°C |
|                       | @Temperature 112 °C  | @Temperature 234 °F  |                      |
|                       | 2.70e+9 ohm-cm       | 2.70e+9 ohm-cm       | cured 2 hours @ 93°C |
|                       | @Temperature 100 °C  | @Temperature 212 °F  |                      |
|                       | 9.40e+14 ohm-cm      | 9.40e+14 ohm-cm      | cured 2 hours @ 93°C |
|                       | @Temperature 25.0 °C | @Temperature 77.0 °F |                      |

| Processing Properties | Metric               | English              | Comments |
|-----------------------|----------------------|----------------------|----------|
| Pot Life              | 22 min               | 22 min               | 200 g    |
|                       | @Temperature 25.0 °C | @Temperature 77.0 °F |          |
| Gel Time              | 6.00 min             | 6.00 min             | 10 g     |
|                       | @Temperature 93.0 °C | @Temperature 199 °F  |          |

| Descriptive Properties | Value | Comments       |
|------------------------|-------|----------------|
| Parts by Weight (pbw)  | 10.2  | AboCure 8110-1 |
|                        | 100   | AboCast 8110-6 |

## Contact Songhan Plastic Technology Co.,Ltd.

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