

## Abatron AboCast 50-16/AboCure 50-12 Epoxy

Category : Polymer , Adhesive , Thermoset , Epoxy

### Material Notes:

Information provided by Abatron, Inc. Processing: Shelf life: 12+ months (unmixed). 100/14 ratio. Pot life: 500 g, 38 min. at 25°C (77°F). Exothermic Peak 280°C (535°F). Hardens in 2-24 hours at RT (faster with heat). Full cure in 1-5 weeks at RT or 1-4 hrs at 80-120°C (175-250°F).

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Abatron-AboCast-50-16AboCure-50-12-Epoxy.php](http://www.lookpolymers.com/polymer_Abatron-AboCast-50-16AboCure-50-12-Epoxy.php)

| Physical Properties   | Metric | English | Comments |
|-----------------------|--------|---------|----------|
| Viscosity Measurement | 100    | 100     |          |

| Mechanical Properties      | Metric     | English        | Comments |
|----------------------------|------------|----------------|----------|
| Hardness, Rockwell M       | 87         | 87             |          |
| Tensile Strength, Ultimate | 65.29 MPa  | 9470 psi       |          |
| Elongation at Break        | 8.1 %      | 8.1 %          |          |
| Flexural Yield Strength    | 93.91 MPa  | 13620 psi      |          |
| Flexural Modulus           | 2.84 GPa   | 412 ksi        |          |
| Compressive Yield Strength | 87.49 MPa  | 12690 psi      |          |
| Compressive Modulus        | 1.97 GPa   | 286 ksi        |          |
| Izod Impact, Notched       | 0.219 J/cm | 0.410 ft-lb/in |          |

| Thermal Properties               | Metric  | English | Comments                              |
|----------------------------------|---------|---------|---------------------------------------|
| Maximum Service Temperature, Air | 64.0 °C | 147 °F  | Deflection temperature; load unknown. |

| Electrical Properties  | Metric             | English            | Comments |
|------------------------|--------------------|--------------------|----------|
| Electrical Resistivity | >= 1.19e+16 ohm-cm | >= 1.19e+16 ohm-cm |          |
| Surface Resistance     | 7.85e+15 ohm       | 7.85e+15 ohm       |          |
| Dielectric Constant    | 3.24               | 3.24               |          |
|                        | @Frequency 1e+6 Hz | @Frequency 1e+6 Hz |          |
|                        | 3.62               | 3.62               |          |
|                        | @Frequency 1000 Hz | @Frequency 1000 Hz |          |

| Electrical Properties | Metric             | English            | Comments |
|-----------------------|--------------------|--------------------|----------|
|                       | @Frequency 60 Hz   | @Frequency 60 Hz   |          |
| Dissipation Factor    | 0.0098             | 0.0098             |          |
|                       | @Frequency 60 Hz   | @Frequency 60 Hz   |          |
|                       | 0.013              | 0.013              |          |
|                       | @Frequency 1000 Hz | @Frequency 1000 Hz |          |
|                       | 0.025              | 0.025              |          |
|                       | @Frequency 1e+6 Hz | @Frequency 1e+6 Hz |          |

| Processing Properties | Metric | English | Comments |
|-----------------------|--------|---------|----------|
| Pot Life              | 38 min | 38 min  | 500 g    |

| Descriptive Properties | Value | Comments |
|------------------------|-------|----------|
| Exotherm               | 280°C | Peak     |

## Contact Songhan Plastic Technology Co.,Ltd.

Website : [www.lookpolymers.com](http://www.lookpolymers.com)

Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China