

## Sumitomo Bakelite North America E 264H Long Glass Fiber Reinforced Epoxy

Category : Polymer , Thermoset , Epoxy , Epoxy, Molded, Glass Fiber Filler , Filled/Reinforced Thermoset

### Material Notes:

E 264H is a high strength, long fiberglass reinforced epoxy molding compound, which features improved flow in transfer molding. Information provided by Sumitomo Bakelite North America, Inc.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Sumitomo-Bakelite-North-America-E-264H-Long-Glass-Fiber-Reinforced-Epoxy.php](http://www.lookpolymers.com/polymer_Sumitomo-Bakelite-North-America-E-264H-Long-Glass-Fiber-Reinforced-Epoxy.php)

| Physical Properties | Metric                                                 | English                                           | Comments   |
|---------------------|--------------------------------------------------------|---------------------------------------------------|------------|
| Bulk Density        | 0.250 g/cc                                             | 0.00903 lb/in <sup>3</sup>                        | ASTM D1895 |
| Density             | 1.82 g/cc                                              | 0.0658 lb/in <sup>3</sup>                         | ASTM D792  |
| Water Absorption    | 0.15 %<br>@Temperature 50.0<br>Â°C,<br>Time 173000 sec | 0.15 %<br>@Temperature 122 Â°F,<br>Time 48.0 hour | ASTM D570  |

| Mechanical Properties     | Metric    | English       | Comments              |
|---------------------------|-----------|---------------|-----------------------|
| Hardness, Rockwell M      | 105       | 105           | ASTM D2583            |
| Tensile Strength at Break | 94.0 MPa  | 13600 psi     | ASTM D638             |
| Flexural Strength         | 235 MPa   | 34100 psi     | at rupture; ASTM D790 |
| Flexural Modulus          | 20.0 GPa  | 2900 ksi      | ASTM D790             |
| Compressive Strength      | 203 MPa   | 29400 psi     | ASTM D695             |
| Izod Impact, Notched      | 7.28 J/cm | 13.6 ft-lb/in | ASTM D256             |

| Thermal Properties                             | Metric     | English    | Comments                  |
|------------------------------------------------|------------|------------|---------------------------|
| Deflection Temperature at 1.8 MPa<br>(264 psi) | >= 282 Â°C | >= 540 Â°F | As Molded; ASTM D648A     |
|                                                | >= 282 Â°C | >= 540 Â°F | Post Baked; ASTM D648A    |
| Shrinkage                                      | 0.090 %    | 0.090 %    | Post Shrinkage; ASTM D955 |

| Electrical Properties | Metric                          | English                         | Comments       |
|-----------------------|---------------------------------|---------------------------------|----------------|
| Dielectric Constant   | 3.7<br>@Frequency 1.00e+6<br>Hz | 3.7<br>@Frequency 1.00e+6<br>Hz | wet; ASTM D150 |
|                       | 15.0 kV/mm                      | 381 kV/in                       |                |

| Dielectric Strength<br>Electrical Properties | Metric<br>@Frequency 60.0 Hz | English<br>@Frequency 60.0 Hz | step-by-step, wet; ASTM D149<br>Comments |
|----------------------------------------------|------------------------------|-------------------------------|------------------------------------------|
|                                              | 15.4 kV/mm                   | 391 kV/in                     | step-by-step, dry; ASTM D149             |
|                                              | @Frequency 60.0 Hz           | @Frequency 60.0 Hz            |                                          |
|                                              | 17.0 kV/mm                   | 432 kV/in                     | short time, wet; ASTM D149               |
|                                              | @Frequency 60.0 Hz           | @Frequency 60.0 Hz            |                                          |
|                                              | 17.4 kV/mm                   | 442 kV/in                     | short time, dry; ASTM D149               |
|                                              | @Frequency 60.0 Hz           | @Frequency 60.0 Hz            |                                          |
| Dissipation Factor                           | 0.010                        | 0.010                         | wet; ASTM D150                           |
|                                              | @Frequency 1.00e+6 Hz        | @Frequency 1.00e+6 Hz         |                                          |
| Arc Resistance                               | 125 sec                      | 125 sec                       | ASTM D495                                |

| Descriptive Properties | Value        | Comments |
|------------------------|--------------|----------|
| Color                  | Natural      |          |
| Form                   | Coarse Flake |          |
| Molding Method         | Compression  |          |
|                        | Transfer     |          |

## Contact Songhan Plastic Technology Co.,Ltd.

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