

# SUMILITE® EL-3762

Epoxy; Epoxide  
Sumitomo Bakelite Co., Ltd.

Message:

SUMILITE®EL-3762 is an epoxy; Epoxy resin products. It is available in North America. Typical application areas are: coating applications. The main characteristics are: flame retardant/rated flame.

| General Information            |               |                   |             |
|--------------------------------|---------------|-------------------|-------------|
| Uses                           | Laminate      |                   |             |
| Appearance                     | Natural color |                   |             |
| Forms                          | Particle      |                   |             |
| Physical                       | Nominal Value | Unit              | Test Method |
| Specific Gravity               | 1.80          | g/cm <sup>3</sup> | ASTM D792   |
| Water Absorption (23°C, 24 hr) | 0.010         | %                 | ASTM D570   |
| Mechanical                     | Nominal Value | Unit              | Test Method |
| Tensile Strength (Yield)       | 310           | MPa               | ASTM D638   |
| Flexural Strength (Yield)      | 370           | MPa               | ASTM D790   |
| Compressive Strength           | 200           | MPa               | ASTM D695   |
| Impact                         | Nominal Value | Unit              | Test Method |
| Notched Izod Impact            |               |                   | ASTM D256   |
| Transverse flow                | 660           | J/m               | ASTM D256   |
| Flow                           | 710           | J/m               | ASTM D256   |
| Electrical                     | Nominal Value | Unit              | Test Method |
| Dielectric Strength            | 18            | kV/mm             | ASTM D149   |
| Dielectric Constant            | 4.50          |                   | ASTM D150   |
| Dissipation Factor             | 0.018         |                   | ASTM D150   |
| Flammability                   | Nominal Value | Unit              | Test Method |
| Flame Rating                   | V-0           |                   | UL 94       |
| Additional Information         |               |                   |             |

Tests were performed in accordance with JIS K6911Flexural Strength, JIS K6911, Flow: 390 MpaFlexural Strength, JIS K6911, Accross Flow: 370 MpaFlexural Strength, JIS K6911, Punching, Flow: 540 MpaFlexural Strength, JIS K6911, Punching, Accross Flow: 470 MpaTensile Strength at Yield, JIS K6911, Flow: 340 MpaTensile Strength at Yield, JIS K6911, Accross Flow: 310 MpaCompressive Strength, JIS K6911, Vertical: 350 MpaCompressive Strength, JIS K6911, Parallel: 200 MpaBonding Strength, JIS K6911: 10.8 KNSolvent Resistivity, JIS K6911, 30 min boil: ConstantDielectric Strength, JIS K6911, Flatwise: 18 MV/mPunching Temperature, JIS K6911: 60°CSpecific Gravity, JIS K6911, Punching: 1.92Dielectric Strength, JIS K6911, Edgewise: 45 KVInsulation Resistance, JIS K6911: 2e9 M ohmsInsulation Resistance JIS K6911: 3e8 M ohmsInsulation Resistance, JIS K6911, Punching: 1e7 M ohmsInsulation Resistance, JIS K6911, Punching: 1e6 M ohmsHeat Resistivity, JIS K6911, 120 min: 150°CHeat Resistivity, JIS K6911, Punching, 120 min: 140°C

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