

# Lytex 4142

Epoxy; Epoxide

Quantum Composites Inc.

## Message:

Lytex 4142 is an epoxy matrix, woven glass fiber reinforced sheet molding compound. The glass reinforcement is 1581 style 0-90 biaxial glass cloth. Its use is suggested for applications where a woven fabric is desirable. Lytex 4142 can be compression molded using conventional equipment and fast cycles.

| General Information      |                                   |                   |             |
|--------------------------|-----------------------------------|-------------------|-------------|
| Filler / Reinforcement   | Glass Fabric,70% Filler by Weight |                   |             |
| Features                 | Fast Molding Cycle                |                   |             |
| Appearance               | Black                             |                   |             |
| Forms                    | SMC - Sheet Molding Compound      |                   |             |
| Processing Method        | Compression Molding               |                   |             |
| Physical                 | Nominal Value                     | Unit              | Test Method |
| Specific Gravity         | 1.95                              | g/cm <sup>3</sup> | ASTM D792   |
| Apparent Density         | 1.94                              | g/cm <sup>3</sup> | ASTM D1895  |
| Water Absorption (24 hr) | 0.080                             | %                 | ASTM D570   |
| Mechanical               | Nominal Value                     | Unit              | Test Method |
| Tensile Strength         | 379                               | MPa               | ASTM D638   |
| Flexural Modulus         | 22800                             | MPa               | ASTM D790   |
| Flexural Strength        | 579                               | MPa               | ASTM D790   |
| Compressive Modulus      | 33800                             | MPa               | ASTM D695   |
| Compressive Strength     | 400                               | MPa               | ASTM D695   |
| Impact                   | Nominal Value                     | Unit              | Test Method |
| Notched Izod Impact      | 1300                              | J/m               | ASTM D256   |
| Thermoset                | Nominal Value                     | Unit              |             |
| Demold Time (138°C)      | 5.0 to 10                         | min               |             |

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### Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



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