

# Quantum Composites QC-2150

Phenolic

Quantum Composites Inc.

Message:

QC-2150 is a glass-reinforced sheet molding compound based on a phenolic resin matrix. It exhibits outstanding low flammability characteristics. QC-2150 is recommended for applications such as aircraft interiors and public transportation components requiring composite materials having very low flammability, low smoke, and minimal generation of toxic gases.

| General Information      |                                  |                   |             |
|--------------------------|----------------------------------|-------------------|-------------|
| Filler / Reinforcement   | Glass Fiber,50% Filler by Weight |                   |             |
| Features                 | Flame Retardant                  |                   |             |
|                          | Low Smoke Emission               |                   |             |
|                          | Low Toxicity                     |                   |             |
| Uses                     | Aircraft Interiors               |                   |             |
| Appearance               | Black                            |                   |             |
|                          | Natural Color                    |                   |             |
| Forms                    | SMC - Sheet Molding Compound     |                   |             |
| Physical                 | Nominal Value                    | Unit              | Test Method |
| Specific Gravity         | 1.82                             | g/cm <sup>3</sup> | ASTM D792   |
| Molding Shrinkage - Flow | 0.15                             | %                 | ASTM D955   |
| Mechanical               | Nominal Value                    | Unit              | Test Method |
| Tensile Strength         | 131                              | MPa               | ASTM D638   |
| Flexural Modulus         | 13100                            | MPa               | ASTM D790   |
| Flexural Strength        | 179                              | MPa               | ASTM D790   |
| Impact                   | Nominal Value                    | Unit              | Test Method |
| Notched Izod Impact      | 640                              | J/m               | ASTM D256   |
| Thermoset                | Nominal Value                    | Unit              |             |
| Shelf Life (-18°C)       | 26                               | wk                |             |
| Post Cure Time (149°C)   | 0.050                            | hr                |             |
| Injection                | Nominal Value                    | Unit              |             |
| Mold Temperature         | 132 to 160                       | °C                |             |
| Injection Pressure       | 3.45 to 13.8                     | MPa               |             |

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