

TCA Ultra Lite® 855LD

Thermoset Polyester

Continental Structural Plastics

Message:

TCA Ultra Lite® is a polyester-based, Class A SMC. TCA Ultra Lite provides a nearly 40 percent reduction in density when compared to standard density formulations. This reduction was accomplished via the use of TCA resin chemistry - which makes the SMC substrate much more robust - as well as the introduction of lightweight fillers.

| General Information | | | |
|------------------------------|----------------------------------|-------------------|-------------|
| Filler / Reinforcement | Glass Fiber,39% Filler by Weight | | |
| Features | Good Chemical Resistance | | |
| | Good Crack Resistance | | |
| | Good Dimensional Stability | | |
| | Good Surface Finish | | |
| | High Heat Resistance | | |
| Uses | Automotive Applications | | |
| | Automotive Exterior Parts | | |
| Forms | SMC - Sheet Molding Compound | | |
| Physical | Nominal Value | Unit | Test Method |
| Specific Gravity | 1.24 | g/cm ³ | ASTM D792 |
| Molding Shrinkage | 0.090 | % | |
| Water Absorption (24 hr) | < 0.80 | % | ASTM D570 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Modulus | 8800 | MPa | ASTM D638 |
| Tensile Strength | 77.0 | MPa | ASTM D638 |
| Flexural Modulus | 7800 | MPa | ASTM D790 |
| Flexural Strength | 170 | MPa | ASTM D790 |
| Compressive Modulus | 5060 | MPa | ASTM D695 |
| Compressive Strength | 98.0 | MPa | ASTM D695 |
| Impact | Nominal Value | Unit | Test Method |
| Notched Izod Impact (Area) | 84.0 | kJ/m ² | ASTM D256 |
| Unnotched Izod Impact (Area) | 79.0 | kJ/m ² | ASTM D256 |

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