



Product Family : IDITrain - Sheet Molding Compound (SMC)
Product Description : The material is a composite based on thermosetting resin, mineral filler and reinforced with fibers

| Material properties | | 95LS15000 |
|---------------------|--|--------------|
| Physical | Density <i>ISO 1183 (g/cm³)</i> | 2 |
| | Shrinkage <i>ISO 2577 (%)</i> | 0.01 to 0.2% |
| Mechanical | Flexural strength <i>EN ISO 14125 (MPa)</i> | 170 |
| | Flexural modulus <i>EN ISO 14125 (MPa)</i> | 11500 |
| | Charpy impact resistance <i>EN ISO 179 (kJ/m²)</i> | 85 |
| Fire resistance | Fire and fumes regulation <i>EN 45545</i> | HL3 R1 |
| | Critical Heat Flux at Extinguishment <i>ISO 5658-2 (kW/m²)</i> | 27.3 |
| | Smoke density VOF4 <i>ISO 5659-2 (50kW/m² without pilot flame)</i> | 141 |
| | Smoke density Ds (4) <i>ISO 5659-2 (50kW/m² without pilot flame)</i> | 110 |
| | Smoke density CIT <i>PR XP CEN/TS 45545-2 Part2 / Annex C (50 kW/m² without pilot flame)</i> | 0.2 |
| | Rate of Heat Release MAHRE <i>ISO 5660 (50kW/m²)</i> | 21 |
| | Limit oxygen index <i>EN ISO 4589-2 (%)</i> | >99 |
| Electrical | Combined insulation resistance <i>CEI 60167 (Ohm)</i> | >1.10E13 |
| | Comperative Tracking Index <i>CEI 60112 (V)</i> | CTI600 |
| | Volume resistivity <i>CEI 60093 (Ohm.cm)</i> | >1.10E12 |
| | Surface resistivity <i>CEI 60093 (Ohm/square)</i> | >1.10E14 |
| | Volume dielectrical rigidity <i>CEI 60243-1 (kV/mm)</i> | >10 |
| Others | Water absorption <i>ISO 62 method 1</i> | <0.5 |

The information on this sheet is a guide. The stated values reflect an average of several tests conducted on IDI CI Europe's goods. These values were obtained under ideal conditions and may not be replicated in any particular test, part, or application. Because the values achieved in actual parts depend considerably on part design, molding conditions, and testing methods, no guarantee is made or implied regarding values to be obtained in any specific test, part, or application. IDI CI Europe makes no warranty or representation as the suitability of any of its goods for use in any application. IDI CI Europe relies on customer to conduct its own tests and judge for itself the suitability of IDI CI Europe's goods.