

Typical value for Solarene[®]

Grade : Solarene[®] FRPS, F-744

| Test items | Unit | Test Method | Test Condition | Typical Value |
|-------------------------------|---------------------------|-------------|----------------|----------------|
| Mechanical Properties | | | | |
| Tensile Stress at yield | kgf/cm ² [MPa] | ASTM D 638 | - | 240 [24] |
| Elongation | % | ASTM D 638 | - | 55 |
| Flexural Strength | kgf/cm ² [MPa] | ASTM D 790 | - | 410 [40] |
| Flexural Modulus | kgf/cm ² [MPa] | ASTM D 790 | - | 22,000 [2,157] |
| IZOD Impact Strength | kgf-cm/cm [J/m] | ASTM D 256 | 3.2mm Notched | 11.0 [107.8] |
| Rockwell Hardness | - | ASTM D 785 | L-Scale | 62 |
| Rheological Properties | | | | |
| Melt Flow Index | g/10 min | ASTM D 1238 | 200°C/5kg | 15.0 |
| Thermal Properties | | | | |
| Vicat Softening Temp. | °C | ASTM D 1525 | A/50 | 93 |
| Mold Shrinkage | % | ASTM D 955 | - | 0.4~0.7 |
| Heat Deflection Temperature | °C | ASTM D 648 | 200g | 75 |
| Physical Properties | | | | |
| Specific Gravity | - | ASTM D 792 | - | 1.15 |
| Water Absorption | % | ASTM D 570 | - | 0.05 |
| Burning Properties | | | | |
| Flammability | class | UL 94 | - | V0 |

* The above values are only the representatives of natural color specimen.

* The listed values should be used for referential purposed only.



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