# GLASS COMPOSITES

## SG200

| PROPERTY | TEST METHOD | VALUE | UNIT |
|---|---|---|---|
| **MECHANICAL CHARACTERISTICS** | | | |
| TENSILE STRENGTH | ISO 527 | 85 | Mpa |
| FLEXURAL STRENGTH | ISO 178 | 130 | Mpa |
| SHEAR STRENGTH | EN60893-2 | | Mpa |
| IMPACT STRENGTH | ISO 179 | | $KJ/m^2$ |
| COMPRESSIVE STRENGTH | ISO 604 | 200 | Mpa |
| MODULUS STREGNTH | ISO 178 | | Mpa |
| **PHYSICAL STRENGTH** | | | |
| SPECIFIC GRAVITY | ISO 1183 | 1.7 | $g/cm^3$ |
| WATER ABSORBTION | ISO 62/1 | 20 | mg |
| THERMAL CLASSIFICATION | IEC 216 | 210 (H) | $^oC$ |
| **ELECTRICAL CHARACTERISTICS** | | | |
| ARC RESISTANCE | ASTM D495 | 120 | sec |
| ELECTRICAL STRENGTH IN OIL | IEC 243-1 | | |
| FLAT WISE PERPINDICULAR (3MM) | | 19.7 | KV/mm |
| EDGEWISE PARALLEL | | 50 | KV |
| PERMITTIVITY AT 48-62 Hz | IEC 250 | 4.6 | |
| DISSIPATION FACTOR AT 48-62Hz | IEC 250 | 0.037 | |
| INSULATION RESISTANCE | IEC 167 | $1.45 \times 10^{14}$ | ohm |
| **FIRE BEHAVIOR** | | | |
| FLAME RESISTANCE | UL 94 | HB | |
| SMOKE INDEX | ASTM E662 | | |
| STANDARDS MET | | | |
| EW | | | |
| NEMA L1 | | GPO1 | |
| DIN 7735 | | Hm2471 | |
| BS 3953 | | | |
| CEI | | | |
| COLOUR | | CREAM | |