

| Properties | Test Method | Terms | Units | GF Reinforced Flame Retardant |
|--|--------------|---------------|--|--|
| | | | | SEF-515T |
| | | | | Non-Bromine High Tracking Resistance |
| | | | | GF15 |
| Physical properties | | | | |
| Density | ISO 1183 | - | g/cm ³ | 1.44 |
| Dimensional properties | | | | |
| Moulding shrinkage (2mmt) | - | MD TD | % | 0.5 1.2 |
| Rheological properties | | | | |
| Melt Volume flow Rate | ISO 1133 | - | cm ³ /10min - | 27 250°C × 5kg |
| Mechanical properties | | | | |
| Yield stress | ISO 527-1,2 | - | MPa | - |
| Stress at break | ISO 527-1,2 | - | MPa | 75 |
| Strain at break | | - | % | 3 |
| Flexural strength | ISO 178 | - | MPa | 110 |
| Flexural modulus | | - | MPa | 5,300 |
| Charpy impact | ISO 179-1, 2 | - | kJ/m ² kJ/m ² | 37 |
| | | notched | | 9 |
| Thermal properties | | | | |
| Melting temperature | ISO 11357-3 | - | °C | 224 |
| Temperature of deflection under load | ISO 75-1, 2 | 1.80MPa | °C | >200 |
| | | 0.45MPa | | >200 |
| Coefficient of Linear thermal expansion | ISO 11359-2 | MD: -30~120°C | 1E-5/°C | 2.9 |
| | | MD: -30~35°C | | 3.4 |
| | | MD: 35~120°C | | 2.6 |
| | | TD: -30~120°C | | 12.4 |
| | | TD: -30~35°C | | 9.3 |
| | | TD: 35~120°C | | 14.8 |
| Flammability | UL94 | - | - | V-0(0.75mmt) V-0(1.5mmt) V-0(3mmt) |
| Electrical properties | | | | |
| Volume resistivity | IEC 60093 | - | Ω·m | >1E12 |
| Surface resistivity | IEC 60093 | - | Ω | >1E14 |
| Electric strength | IEC 60243-1 | 1mmt | MV/m | - |
| | | 2mmt | | 26 |
| | | 3mmt | | - |
| CTI | UL746A | - | - | PLC 0 |
| RTI(Elec) | UL746B | - | - | - |
| RTI(Imp) | UL746B | - | - | - |
| RTI(Str) | UL746B | - | - | - |
| Molding Conditions (Standard example) | | | | |
| Pre-drying Temperature | - | - | °C | 120 / 140 |
| Pre-drying Time | - | - | h | 5-8 / 4-6 |
| Cylinder temperature | - | - | °C | 240-265 |
| Mold temperature | - | - | °C | 50-90 |
| Injection speed | - | - | - | Middle-High |
| Injection pressure | - | - | MPa | 20-150 |
| Screw speed | - | - | rpm | 80-150 |

The values described are typical values only.