

Properties

GRSJ

Glass fiber-reinforced SAN resin (GF20%)

| Properties | Test methods | Test conditions | Units | |
|---|---------------|-----------------|-------------------|---------|
| Mold shrinkage | Daicel method | - | % | 0.1-0.3 |
| Tensile strength | ISO 527 | - | MPa | 100 |
| Flexural strength | ISO 178 | - | MPa | 150 |
| Flexural modulus | ISO 178 | - | MPa | 8000 |
| Notched Charpy impact strength | ISO 179/1eA | 23 deg C | kJ/m ² | 5 |
| Notched Izod impact strength | ASTM D256 | 23 deg C/6.4mm | J/m | 50 |
| Rockwell hardness | ISO 2039 | - | - | M101 |
| Deflection temperature under load | ISO 75 | 1.80MPa | deg C | 103 |
| Deflection temperature under load | ASTM D648 | 1.82MPa/12.7mm | deg C | 112 |
| Vicat softening temperature | ISO 306/B50 | 50N X 50deg C/h | deg C | 104 |
| Coefficient of linear thermal expansion | ISO 11359 | MD | X1E-5/deg C | 3 |
| Coefficient of linear thermal expansion | ISO 11359 | TD | X1E-5/deg C | 7 |
| Flammability | UL94 | - | - | HB |
| Dielectric strength | ASTM D149 | 1.5mm | MV/m | 49 |
| Arc resistance | ASTM D495 | 3.0mm | sec(PLC) | 81(6) |
| Water absorption | ISO 62 | - | % | 0.3 |
| Density | ISO 1183 | - | g/cm ³ | 1.22 |

Note

- Test methods such as ISO standards are fully or almost compliant with the standards.
- Values are typical, not quality assured.
- UL recognition File No. is E47773.
- The colorant formulations are restricted for each UL certified color. Please contact us for more information.

Typical settings for processing

| Preliminary drying | Barrel temperature(deg C) | | | | Screw rotation (rpm) | Back pressure (MPa) | Mold temperature (deg C) |
|----------------------|---------------------------|---------|---------|---------|----------------------|---------------------|--------------------------|
| | Nozzle | Front | Middle | Back | | | |
| 3-5hrs 80-85deg C | 230-250 | 230-250 | 210-230 | 190-210 | 40-60 | 10-20 | 60-80 |