

MARCOBLEND 1000 RD01

Polycarbonate

POLY GIN

Message:

MARCOBLEND 1000 RD01 is a high gloss polycarbonate resin. The resin is Halogen free and compliance with TCO and RoHS certification. The unique characters include superior processability, good stiffness, and excellent dimension stability and suitable for use in TFT LCD frame and internal structure parts.

| General Information | | | |
|---|----------------------------|----------|-------------|
| Features | Good Dimensional Stability | | |
| | Good Processability | | |
| | Good Stiffness | | |
| | Halogen Free | | |
| | High Gloss | | |
| RoHS Compliance | RoHS Compliant | | |
| Appearance | Red | | |
| Processing Method | Injection Molding | | |
| Physical | Nominal Value | Unit | Test Method |
| Specific Gravity | 1.20 | g/cm³ | ASTM D792 |
| Melt Mass-Flow Rate (MFR) (300°C/1.2 kg) | 18 | g/10 min | ASTM D1238 |
| Molding Shrinkage - Flow | 0.40 to 0.60 | % | ASTM D955 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Strength (Yield) | 61.8 | MPa | ASTM D638 |
| Tensile Elongation (Break) | 100 | % | ASTM D638 |
| Flexural Modulus | 2360 | MPa | ASTM D790 |
| Flexural Strength | 111 | MPa | ASTM D790 |
| Impact | Nominal Value | Unit | Test Method |
| Notched Izod Impact (23°C) | 850 | J/m | ASTM D256 |
| Thermal | Nominal Value | Unit | Test Method |
| Deflection Temperature Under Load (1.8 MPa, Unannealed) | 121 | °C | ASTM D648 |
| Flammability | Nominal Value | | Test Method |
| Flame Rating | V-0 | | UL 94 |
| Injection | Nominal Value | Unit | |
| Drying Temperature | 120 | °C | |
| Drying Time | 3.0 to 4.0 | hr | |
| Rear Temperature | 260 to 265 | °C | |
| Middle Temperature | 265 to 270 | °C | |
| Front Temperature | 270 to 275 | °C | |
| Nozzle Temperature | 275 to 290 | °C | |

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| Mold Temperature | 80.0 to 120 | °C |
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