

# MARCOBLEND 2000 Sx Series

Polycarbonate

POLY GIN

## Message:

MARCOBLEND 2000 Sx is a middle light-reflective ratio with 10% glass fiber content ignition resistant Polycarbonate resin. The resin is Halogen free and compliance with TCO and RoHS certification. The unique characters include superior processability, appropriate light- reflective efficacy and suitable for use in IT mechanical parts and optical parts which include notebook, LCD TV and Monitor back-light frame.

| General Information                                     |                                  |                   |             |
|---|----------------------------------|-------------------|-------------|
| Filler / Reinforcement                                  | Glass Fiber,10% Filler by Weight |                   |             |
| Additive  | Flame Retardant                  |                   |             |
| Features  | Flame Retardant                  |                   |             |
|   | Good Processability              |                   |             |
|   | Good Stiffness                   |                   |             |
|   | Halogen Free                     |                   |             |
|   | High Reflectivity                |                   |             |
| RoHS Compliance   | RoHS Compliant                   |                   |             |
| Processing Method                                       | Injection Molding                |                   |             |
| Physical  | Nominal Value                    | Unit              | Test Method |
| Specific Gravity  | 1.27                             | g/cm <sup>3</sup> | ASTM D792   |
| Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)                | 18                               | g/10 min          | ASTM D1238  |
| Molding Shrinkage - Flow                                | 0.20 to 0.40                     | %                 | ASTM D955   |
| Mechanical  | Nominal Value                    | Unit              | Test Method |
| Tensile Strength (Yield)                                | 59.7                             | MPa               | ASTM D638   |
| Flexural Modulus  | 2890                             | MPa               | ASTM D790   |
| Flexural Strength                                       | 105                              | MPa               | ASTM D790   |
| Impact  | Nominal Value                    | Unit              | Test Method |
| Notched Izod Impact (23°C)                              | 120                              | J/m               | ASTM D256   |
| Thermal   | Nominal Value                    | Unit              | Test Method |
| Deflection Temperature Under Load (1.8 MPa, Unannealed) | 119                              | °C                | ASTM D648   |
| CLTE  |                                  |                   | ASTM D696   |
| Flow  | 4.0E-5                           | cm/cm/°C          |             |
| Transverse  | 6.5E-5                           | cm/cm/°C          |             |
| Flammability  | Nominal Value                    |                   | Test Method |
| Flame Rating  | V-0                              |                   | UL 94       |
| Optical   | Nominal Value                    | Unit              | Test Method |
| Light Reflective Rate                                   | 65 to 95                         | %                 | ASTM E1104  |
| Injection   | Nominal Value                    | Unit              |             |
| Drying Temperature                                      | 100                              | °C                |             |

|                    |              |    |
|--------------------|--------------|----|
| Drying Time        | 3.0 to 4.0   | hr |
| Rear Temperature   | 250 to 270   | °C |
| Middle Temperature | 250 to 270   | °C |
| Front Temperature  | 260 to 280   | °C |
| Nozzle Temperature | 260 to 280   | °C |
| Mold Temperature   | 60.0 to 80.0 | °C |

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