

# Sicoklar E51.30

Polycarbonate

Ravago Group

Message:

PC, 30 % glass fibre filled grade

| General Information                             |                                  |                   |                 |
|-------------------------------------------------|----------------------------------|-------------------|-----------------|
| Filler / Reinforcement                          | Glass Fiber,30% Filler by Weight |                   |                 |
| Physical                                        | Nominal Value                    | Unit              | Test Method     |
| Density                                         | 1.42                             | g/cm <sup>3</sup> | ISO 1183        |
| Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)        | 7.0                              | g/10 min          | ISO 1133        |
| Molding Shrinkage                               | 0.20 to 0.30                     | %                 | ISO 2577        |
| Mechanical                                      | Nominal Value                    | Unit              | Test Method     |
| Tensile Stress (Break)                          | 70.0                             | MPa               | ISO 527-2       |
| Tensile Strain (Break)                          | 4.0                              | %                 | ISO 527-2       |
| Flexural Modulus                                | 5400                             | MPa               | ISO 178         |
| Impact                                          | Nominal Value                    | Unit              | Test Method     |
| Notched Izod Impact Strength                    |                                  |                   | ISO 180/1A      |
| -30°C                                           | 5.0                              | kJ/m <sup>2</sup> |                 |
| 23°C                                            | 7.0                              | kJ/m <sup>2</sup> |                 |
| Thermal                                         | Nominal Value                    | Unit              | Test Method     |
| Heat Deflection Temperature (1.8 MPa, Annealed) | 145                              | °C                | ISO 75-2/A      |
| Vicat Softening Temperature                     |                                  |                   |                 |
| --                                              | 153                              | °C                | ISO 306/A50     |
| --                                              | 147                              | °C                | ISO 306/B50     |
| Ball Pressure Test (125°C)                      | Pass                             |                   |                 |
| Electrical                                      | Nominal Value                    | Unit              | Test Method     |
| Surface Resistivity                             | 1.0E+15                          | ohms              | IEC 60093       |
| Volume Resistivity                              | 1.0E+15                          | ohms · cm         | IEC 60093       |
| Electric Strength (1.00 mm, in Oil)             | 17                               | kV/mm             | IEC 60243-1     |
| Comparative Tracking Index                      | 250                              | V                 | IEC 60112       |
| Flammability                                    | Nominal Value                    | Unit              | Test Method     |
| Flame Rating <sup>1</sup>                       |                                  |                   | Internal Method |
| 1.60 mm                                         | V-2                              |                   |                 |
| 3.20 mm                                         | V-0                              |                   |                 |
| Glow Wire Flammability Index (2.00 mm)          | 850                              | °C                | IEC 60695-2-12  |
| NOTE                                            |                                  |                   |                 |

1. UL94 internally tested

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