

# Sicoklar E01.04

Polycarbonate  
Ravago Group

Message:  
PC, extrusion grade

| General Information                             |               |                   |                 |
|-------------------------------------------------|---------------|-------------------|-----------------|
| Processing Method                               | Extrusion     |                   |                 |
| Physical                                        | Nominal Value | Unit              | Test Method     |
| Density                                         | 1.20          | g/cm <sup>3</sup> | ISO 1183        |
| Melt Mass-Flow Rate (MFR) (220°C/10.0 kg)       | 4.0           | g/10 min          | ISO 1133        |
| Molding Shrinkage                               | 0.50 to 0.70  | %                 | ISO 2577        |
| Mechanical                                      | Nominal Value | Unit              | Test Method     |
| Tensile Stress                                  |               |                   | ISO 527-2       |
| Yield                                           | 65.0          | MPa               |                 |
| Break                                           | 60.0          | MPa               |                 |
| Tensile Strain (Break)                          | 70            | %                 | ISO 527-2       |
| Flexural Modulus                                | 2400          | MPa               | ISO 178         |
| Impact                                          | Nominal Value | Unit              | Test Method     |
| Notched Izod Impact Strength                    |               |                   | ISO 180/1A      |
| -30°C                                           | 20            | kJ/m <sup>2</sup> |                 |
| 23°C                                            | 65            | kJ/m <sup>2</sup> |                 |
| Thermal                                         | Nominal Value | Unit              | Test Method     |
| Heat Deflection Temperature (1.8 MPa, Annealed) | 140           | °C                | ISO 75-2/A      |
| Vicat Softening Temperature                     |               |                   |                 |
| --                                              | 150           | °C                | ISO 306/A50     |
| --                                              | 144           | °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                                         | HB            |                   |                 |
| 3.20 mm                                         | HB            |                   |                 |
| 0.750 mm                                        | V-2           |                   |                 |
| Glow Wire Flammability Index (2.00 mm)          | 850           | °C                | IEC 60695-2-12  |

## NOTE

1. UL94 internally tested

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