

# Sicoklar E71.22

Polycarbonate

Ravago Group

Message:

PC, high flow V0 flame retardant grade also available in transparent colors

| General Information                             |                   |                   |             |
|-------------------------------------------------|-------------------|-------------------|-------------|
| Additive                                        | Flame Retardant   |                   |             |
| Features                                        | Flame Retardant   |                   |             |
|                                                 | High Flow         |                   |             |
| Appearance                                      | Clear/Transparent |                   |             |
|                                                 | Colors Available  |                   |             |
| Physical                                        | Nominal Value     | Unit              | Test Method |
| Density                                         | 1.20              | g/cm <sup>3</sup> | ISO 1183    |
| Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)        | 22                | 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                                           | 55.0              | MPa               |             |
| Break                                           | 50.0              | MPa               |             |
| Tensile Strain (Break)                          | 50                | %                 | ISO 527-2   |
| Flexural Modulus                                | 2400              | MPa               | ISO 178     |
| Impact                                          | Nominal Value     | Unit              | Test Method |
| Notched Izod Impact Strength                    |                   |                   | ISO 180/1A  |
| -30°C                                           | 10                | kJ/m <sup>2</sup> |             |
| 23°C                                            | 45                | kJ/m <sup>2</sup> |             |
| Thermal                                         | Nominal Value     | Unit              | Test Method |
| Heat Deflection Temperature (1.8 MPa, Annealed) | 133               | °C                | ISO 75-2/A  |
| Vicat Softening Temperature                     |                   |                   |             |
| --                                              | 146               | °C                | ISO 306/A50 |
| --                                              | 140               | °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                      | 225               | V                 | IEC 60112   |

| Flammability                           | Nominal Value | Unit | Test Method     |
|----------------------------------------|---------------|------|-----------------|
| Flame Rating <sup>1</sup>              |               |      | Internal Method |
| 0.750 mm                               | V-2           |      |                 |
| 1.60 mm                                | V-2           |      |                 |
| 3.20 mm                                | V-0           |      |                 |
| Glow Wire Flammability Index (2.00 mm) | 960           | °C   | IEC 60695-2-12  |

#### NOTE

1. UL94 internally tested

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### Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

