

# Sicoflex S471

Acrylonitrile Butadiene Styrene  
Ravago Group

Message:

ABS heat resistant grade

| General Information                             |                        |                   |                 |
|-------------------------------------------------|------------------------|-------------------|-----------------|
| Features                                        | Medium Heat Resistance |                   |                 |
| Physical                                        | Nominal Value          | Unit              | Test Method     |
| Density                                         | 1.05                   | g/cm <sup>3</sup> | ISO 1183        |
| Melt Mass-Flow Rate (MFR) (220°C/10.0 kg)       | 7.0                    | g/10 min          | ISO 1133        |
| Molding Shrinkage                               | 0.40 to 0.60           | %                 | ISO 2577        |
| Mechanical                                      | Nominal Value          | Unit              | Test Method     |
| Tensile Stress                                  |                        |                   | ISO 527-2       |
| Yield                                           | 50.0                   | MPa               |                 |
| Break                                           | 40.0                   | MPa               |                 |
| Tensile Strain (Break)                          | 20                     | %                 | ISO 527-2       |
| Flexural Modulus                                | 2700                   | MPa               | ISO 178         |
| Impact                                          | Nominal Value          | Unit              | Test Method     |
| Notched Izod Impact Strength                    |                        |                   | ISO 180/1A      |
| -23°C                                           | 8.0                    | kJ/m <sup>2</sup> |                 |
| 23°C                                            | 20                     | kJ/m <sup>2</sup> |                 |
| Thermal                                         | Nominal Value          | Unit              | Test Method     |
| Heat Deflection Temperature (1.8 MPa, Annealed) | 108                    | °C                | ISO 75-2/A      |
| Vicat Softening Temperature                     |                        |                   |                 |
| --                                              | 118                    | °C                | ISO 306/A50     |
| --                                              | 111                    | °C                | ISO 306/B50     |
| Ball Pressure Test (75°C)                       | Pass                   |                   |                 |
| Electrical                                      | Nominal Value          | Unit              | Test Method     |
| Surface Resistivity                             | 1.0E+15                | ohms              | IEC 60093       |
| Volume Resistivity                              | 1.0E+14                | ohms · cm         | IEC 60093       |
| Electric Strength (1.00 mm, in Oil)             | 26                     | kV/mm             | IEC 60243-1     |
| Comparative Tracking Index                      | 600                    | V                 | IEC 60112       |
| Flammability                                    | Nominal Value          | Unit              | Test Method     |
| Burning Rate                                    | 67                     | mm/min            | FMVSS 302       |
| Flame Rating <sup>1</sup>                       |                        |                   | Internal Method |
| 1.60 mm                                         | HB                     |                   |                 |
| 3.20 mm                                         | HB                     |                   |                 |
| Glow Wire Flammability Index (2.00 mm)          | 650                    | °C                | IEC 60695-2-12  |

## NOTE

1. UL94 internally tested

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