



Mablex® 451

Ravago Manufacturing Europe - Polycarbonate + ABS

General Information

Product Description

PC/ABS blend V0 flame retardant grade antimony bromine and chlorine free

General

| | | |
|-----------------|----------------------|-------------------|
| Material Status | • Commercial: Active | |
| Availability | • Europe | • North America |
| Additive | • Flame Retardant | |
| Features | • Antimony Free | • Chlorine Free |
| | • Bromine Free | • Flame Retardant |

Properties¹

| Physical | Nominal Value | Unit | Test Method |
|---|---------------|-------------------|----------------|
| Density | 1.20 | g/cm ³ | ISO 1183 |
| Melt Mass-Flow Rate (MFR) (260°C/2.16 kg) | 22 | g/10 min | ISO 1133 |
| Molding Shrinkage | 0.50 to 0.70 | % | ISO 2577 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Stress (Yield) | 53.0 | MPa | ISO 527-2 |
| Tensile Stress (Break) | 48.0 | MPa | ISO 527-2 |
| Tensile Strain (Break) | 25 | % | ISO 527-2 |
| Flexural Modulus | 2700 | MPa | ISO 178 |
| Impact | Nominal Value | Unit | Test Method |
| Notched Izod Impact Strength | | | ISO 180/A |
| -30°C | 20 | kJ/m ² | |
| 23°C | 50 | kJ/m ² | |
| Thermal | Nominal Value | Unit | Test Method |
| Deflection Temperature Under Load (1.8 MPa, Annealed) | 80.0 | °C | ISO 75-2/A |
| Vicat Softening Temperature | 92.0 | °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+16 | ohms·cm | IEC 60093 |
| Comparative Tracking Index | 350 | V | IEC 60112 |
| Flammability | Nominal Value | Unit | Test Method |
| Flame Rating | | | UL 94 |
| 1.6 mm | V-0 | | |
| 3.2 mm | V-0 | | |
| Glow Wire Flammability Index (2.0 mm) | 960 | °C | IEC 60695-2-12 |

Notes

¹ Typical properties: these are not to be construed as specifications.