

Product Texts

Partially bio-circular grade.

Processing/Physical Characteristics

| | Value | Unit | Test Standard |
|-----------------------------|-------|------------------------|-----------------|
| ISO Data | | | |
| Melt volume-flow rate, MVR | 18 | cm ³ /10min | ISO 1133 |
| Temperature | 260 | °C | - |
| Load | 5 | kg | - |
| Molding shrinkage, parallel | 0.6 | % | ISO 294-4, 2577 |
| Molding shrinkage, normal | 0.6 | % | ISO 294-4, 2577 |

Mechanical properties

| | Value | Unit | Test Standard |
|---------------------------------------|-------|-------------------|---------------|
| ISO Data | | | |
| Tensile Modulus | 2350 | MPa | ISO 527 |
| Yield stress | 54 | MPa | ISO 527 |
| Yield strain | 4.4 | % | ISO 527 |
| Stress at break | 47 | MPa | ISO 527 |
| Strain at break | >50 | % | ISO 527 |
| Flexural modulus, 23°C | 2350 | MPa | ISO 178 |
| Flexural strength | 84 | MPa | ISO 178 |
| Charpy notched impact strength, +23°C | 50 | kJ/m ² | ISO 179/1eA |
| Charpy notched impact strength, -30°C | 36 | kJ/m ² | ISO 179/1eA |
| Izod impact strength, +23°C | N | kJ/m ² | ISO 180/1U |
| Izod notched impact strength, +23°C | 48 | kJ/m ² | ISO 180/1A |
| Izod notched impact strength | 35 | kJ/m ² | ISO 180/1A |
| Temperature | -30 | °C | - |

Thermal properties

| | Value | Unit | Test Standard |
|---|-------|-------|-----------------|
| ISO Data | | | |
| Temp. of deflection under load, 1.80 MPa | 102 | °C | ISO 75-1/-2 |
| Temp. of deflection under load, 0.45 MPa | 122 | °C | ISO 75-1/-2 |
| Vicat softening temperature, B | 118 | °C | ISO 306 |
| Coeff. of linear therm. expansion, parallel | 80 | E-6/K | ISO 11359-1/-2 |
| Coeff. of linear therm. expansion, normal | 85 | E-6/K | ISO 11359-1/-2 |
| Burning behav. at thickness h | HB | class | IEC 60695-11-10 |
| Thickness tested | 0.8 | mm | - |
| Yellow Card available | yes | - | - |
| Oxygen index | 24 | % | ISO 4589-1/-2 |

Electrical properties

| | Value | Unit | Test Standard |
|--------------------------------------|-------|-------|---------------|
| ISO Data | | | |
| Volume resistivity | 1E14 | Ohm*m | IEC 62631-3-1 |
| Surface resistivity | 1E16 | Ohm | IEC 62631-3-2 |
| Electric strength | 35 | kV/mm | IEC 60243-1 |
| Comparative tracking index | 250 | - | IEC 60112 |
| Other Standards^[5] | | | |
| Relative permittivity, 100Hz | 3.1 | - | IEC 60250 |
| Relative permittivity, 1MHz | 3 | - | IEC 60250 |
| Dissipation factor, 100Hz | 30 | E-4 | IEC 60250 |
| Dissipation factor, 1MHz | 85 | E-4 | IEC 60250 |

S: These properties are reported by the producer according standards that are different to our defaults.

Other properties

| | Value | Unit | Test Standard |
|---------------------|-------|-------------------|----------------|
| Water absorption | 0.7 | % | Sim. to ISO 62 |
| Humidity absorption | 0.2 | % | Sim. to ISO 62 |
| Density | 1130 | kg/m ³ | ISO 1183 |

| Test specimen production | Value | Unit | Test Standard |
|---------------------------------------|-------|------|---------------|
| ISO Data | | | |
| Injection Molding, melt temperature | 260 | °C | ISO 294 |
| Injection Molding, mold temperature | 80 | °C | ISO 294 |
| Injection Molding, injection velocity | 240 | mm/s | ISO 294 |

| Processing Recommendation Injection Molding | Value | Unit | Test Standard |
|---|-----------|------|---------------|
| Pre-drying - Temperature | 95 - 110 | °C | - |
| Pre-drying - Time | 4 | h | - |
| Processing humidity | ≤0.02 | % | - |
| Melt temperature | 240 - 270 | °C | - |
| Mold temperature | 70 - 90 | °C | - |
| Zone 1 | 220 - 230 | °C | - |
| Zone 2 | 225 - 235 | °C | - |
| Zone 3 | 230 - 240 | °C | - |
| Nozzle temperature | 255 - 265 | °C | - |
| Back pressure | 5 - 15 | MPa | - |

Characteristics

Processing

Injection Molding

Certifications

Contains renewable resources, ISCC Plus

Regional Availability

North America, Europe, Asia Pacific, South and Central America, Near East/Africa