

Product Texts

- MVR (300 °C/1.2 kg) 19 cm³/10 min
- low viscosity
- UV stabilized
- easy release
- developed for high-gloss surfaces with highest requirements
- for the use in combination with hard coatings

| Processing/Physical Characteristics | Value | Unit | Test Standard |
|--|-------|-----------|-----------------|
| ISO Data | | | |
| ^[C] Melt volume-flow rate, MVR | 19 | cm³/10min | ISO 1133 |
| Temperature | 300 | °C | - |
| Load | 1.2 | kg | - |
| Melt flow index, MFI | 20 | g/10min | ISO 1133 |
| Temperature | 300 | °C | - |
| Load | 1.2 | kg | - |
| ^[C] Molding shrinkage, parallel | 0.7 | % | ISO 294-4, 2577 |
| ^[C] Molding shrinkage, normal | 0.7 | % | ISO 294-4, 2577 |

[C]: CAMPUS

| Mechanical properties | Value | Unit | Test Standard |
|--|-------|-------|---------------|
| ISO Data | | | |
| ^[C] Tensile Modulus | 2400 | MPa | ISO 527 |
| ^[C] Yield stress | 66 | MPa | ISO 527 |
| ^[C] Yield strain | 6 | % | ISO 527 |
| ^[C] Nominal strain at break | >50 | % | ISO 527 |
| Flexural modulus, 23°C | 2350 | MPa | ISO 178 |
| Flexural strength | 98 | MPa | ISO 178 |
| ^[C] Tensile creep modulus, 1h | 2200 | MPa | ISO 899-1 |
| ^[C] Tensile creep modulus, 1000h | 1900 | MPa | ISO 899-1 |
| ^[C] Charpy impact strength, +23°C | N | kJ/m² | ISO 179/1eU |
| ^[C] Charpy impact strength, -30°C | N | kJ/m² | ISO 179/1eU |
| Charpy notched impact strength, +23°C, 3mm | 65 | kJ/m² | ISO 179/1eA |
| Type of failure | P(C) | - | - |
| Charpy notched impact strength, -30°C, 3mm | 14 | kJ/m² | ISO 179/1eA |
| Type of failure | C | - | - |
| Izod notched impact strength, +23°C | 75 | kJ/m² | ISO 180/1A |
| Izod notched impact strength | 12 | kJ/m² | ISO 180/1A |
| Temperature | -30 | °C | - |
| ^[C] Puncture - maximum force, +23°C | 5100 | N | ISO 6603-2 |
| ^[C] Puncture - maximum force, -30°C | 6000 | N | ISO 6603-2 |
| ^[C] Puncture energy, +23°C | 55 | J | ISO 6603-2 |
| ^[C] Puncture energy, -30°C | 65 | J | ISO 6603-2 |
| Ball indentation hardness | 116 | MPa | ISO 2039-1 |

[C]: CAMPUS

| Thermal properties | Value | Unit | Test Standard |
|--|-------|-------|-----------------|
| ISO Data | | | |
| ^[C] Glass transition temperature, 10°C/min | 143 | °C | ISO 11357-1/-2 |
| ^[C] Temp. of deflection under load, 1.80 MPa | 124 | °C | ISO 75-1/-2 |
| ^[C] Temp. of deflection under load, 0.45 MPa | 136 | °C | ISO 75-1/-2 |
| ^[C] Vicat softening temperature, B | 143 | °C | ISO 306 |
| ^[C] Coeff. of linear therm. expansion, parallel | 65 | E-6/K | ISO 11359-1/-2 |
| ^[C] Coeff. of linear therm. expansion, normal | 65 | E-6/K | ISO 11359-1/-2 |
| ^[C] Burning Behav. at thickness h | V-2 | class | IEC 60695-11-10 |
| Thickness tested | 0.8 | mm | - |
| ^[C] Oxygen index | 27 | % | ISO 4589-1/-2 |
| Glow Wire Flammability Index (GWFI) | 850 | °C | IEC 60695-2-12 |
| GWFI - thickness tested (1) | 0.75 | mm | - |

| | | | |
|---------------------------------------|------|----|----------------|
| Glow Wire Flammability Index (GWFI) | 875 | °C | IEC 60695-2-12 |
| GWFI - thickness tested (2) | 1.5 | mm | - |
| Glow Wire Flammability Index (GWFI) | 930 | °C | IEC 60695-2-12 |
| GWFI - thickness tested (3) | 3 | mm | - |
| Glow Wire Ignition Temperature (GWIT) | 875 | °C | IEC 60695-2-13 |
| GWIT - thickness tested (1) | 0.75 | mm | - |
| Glow Wire Ignition Temperature (GWIT) | 875 | °C | IEC 60695-2-13 |
| GWIT - thickness tested (2) | 1 | mm | - |
| Glow Wire Ignition Temperature (GWIT) | 875 | °C | IEC 60695-2-13 |
| GWIT - thickness tested (3) | 1.5 | mm | - |

[C]: CAMPUS

| Electrical properties | Value | Unit | Test Standard |
|---|-------|-------|---------------|
| ISO Data | | | |
| ^[C] Relative permittivity, 100Hz | 3.1 | - | IEC 62631-2-1 |
| ^[C] Relative permittivity, 1MHz | 3 | - | IEC 62631-2-1 |
| ^[C] Dissipation factor, 100Hz | 5 | E-4 | IEC 62631-2-1 |
| ^[C] Dissipation factor, 1MHz | 90 | E-4 | IEC 62631-2-1 |
| ^[C] Volume resistivity | >1E13 | Ohm*m | IEC 62631-3-1 |
| ^[C] Surface resistivity | >1E15 | Ohm | IEC 62631-3-2 |
| ^[C] Electric strength | 34 | kV/mm | IEC 60243-1 |
| ^[C] Comparative tracking index | 250 | - | IEC 60112 |

[C]: CAMPUS

| Other properties | Value | Unit | Test Standard |
|------------------------------------|-------|-------------------|----------------|
| ^[C] Water absorption | 0.3 | % | Sim. to ISO 62 |
| ^[C] Humidity absorption | 0.12 | % | Sim. to ISO 62 |
| ^[C] Density | 1200 | kg/m ³ | ISO 1183 |
| Bulk density | 660 | kg/m ³ | - |

[C]: CAMPUS

| Film Properties | Value | Unit | Test Standard |
|-----------------------|-------|-----------------------|----------------|
| ISO Data | | | |
| WVTR, 23°C/85%r.h. | 15 | g/(m ² *d) | ISO 15106-1/-2 |
| Thickness of specimen | 0.1 | mm | - |

| Test specimen production | Value | Unit | Test Standard |
|--|-------|------|---------------|
| ISO Data | | | |
| ^[C] Injection Molding, melt temperature | 280 | °C | ISO 294 |
| Injection Molding, mold temperature | 80 | °C | ISO 294 |
| Injection Molding, injection velocity | 200 | mm/s | ISO 294 |

[C]: CAMPUS

| Processing Recommendation Injection Molding | Value | Unit | Test Standard |
|---|-----------|------|---------------|
| Pre-drying - Temperature | 120 | °C | - |
| Pre-drying - Time | 2 - 3 | h | - |
| Processing humidity | ≤0.02 | % | - |
| Melt temperature | 280 - 320 | °C | - |
| Mold temperature | 80 - 120 | °C | - |
| Zone 1 | 250 - 260 | °C | - |
| Zone 2 | 270 - 280 | °C | - |
| Zone 3 | 280 - 290 | °C | - |
| Nozzle temperature | 290 - 300 | °C | - |
| Back pressure | 5 - 15 | MPa | - |

Characteristics**Processing**

Injection Molding

Delivery form

Pellets

Additives

Release agent

Special Characteristics

U.V. stabilized or stable to weather

Features

High Gloss

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