

Product Texts

- MVR (300 °C/1.2 kg) 6.0 cm³/10 min
- 10 % glass fiber reinforced
- flame retardant
- UL 94V-0/1.5 mm and 5VA/3.0 mm
- high viscosity
- UV stabilized
- easy release

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
^[C] Melt volume-flow rate, MVR	6	cm³/10min	ISO 1133
Temperature	300	°C	-
Load	1.2	kg	-
^[C] Molding shrinkage, parallel	0.6	%	ISO 294-4, 2577
^[C] Molding shrinkage, normal	0.5	%	ISO 294-4, 2577

[C]: CAMPUS

Mechanical properties	Value	Unit	Test Standard
ISO Data			
^[C] Tensile Modulus	3800	MPa	ISO 527
^[C] Stress at break	45	MPa	ISO 527
^[C] Strain at break	15	%	ISO 527
^[C] Tensile creep modulus, 1h	3600	MPa	ISO 899-1
^[C] Tensile creep modulus, 1000h	2900	MPa	ISO 899-1
^[C] Charpy impact strength, +23°C	150	kJ/m²	ISO 179/1eU
^[C] Charpy impact strength, -30°C	120	kJ/m²	ISO 179/1eU
^[C] Puncture - maximum force, +23°C	4000	N	ISO 6603-2
^[C] Puncture - maximum force, -30°C	3700	N	ISO 6603-2
^[C] Puncture energy, +23°C	25	J	ISO 6603-2
^[C] Puncture energy, -30°C	15	J	ISO 6603-2

[C]: CAMPUS

Thermal properties	Value	Unit	Test Standard
ISO Data			
^[C] Temp. of deflection under load, 1.80 MPa	135	°C	ISO 75-1/-2
^[C] Temp. of deflection under load, 0.45 MPa	141	°C	ISO 75-1/-2
^[C] Vicat softening temperature, B	143	°C	ISO 306
^[C] Coeff. of linear therm. expansion, parallel	40	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 1.5 mm nom. thickn.	V-0	class	IEC 60695-11-10
Thickness tested	1.5	mm	-
^[C] Burning Behav. 5V at thickness h	5VA	class	IEC 60695-11-20
Thickness tested	3.0	mm	-
^[C] Oxygen index	35	%	ISO 4589-1/-2

[C]: CAMPUS

Electrical properties	Value	Unit	Test Standard
ISO Data			
^[C] Relative permittivity, 100Hz	3.2	-	IEC 62631-2-1
^[C] Relative permittivity, 1MHz	3.2	-	IEC 62631-2-1
^[C] Dissipation factor, 100Hz	10	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	36	kV/mm	IEC 60243-1
^[C] Comparative tracking index	175	-	IEC 60112

[C]: CAMPUS

Other properties	Value	Unit	Test Standard
^[C] Water absorption	0.26	%	Sim. to ISO 62
^[C] Humidity absorption	0.1	%	Sim. to ISO 62
^[C] Density	1270	kg/m ³	ISO 1183

[C]: CAMPUS

Test specimen production	Value	Unit	Test Standard
ISO Data			
^[C] Injection Molding, melt temperature	300	°C	ISO 294
Injection Molding, mold temperature	110	°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	310 - 330	°C	-
Mold temperature	80 - 130	°C	-

Characteristics

Processing

Injection Molding, Other Extrusion

Delivery form

Pellets

Additives

Release agent

Special Characteristics

Flame retardant, Light stabilized or stable to light, U.V. stabilized or stable to weather

Regional Availability

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

Other text information

Injection molding

PREPROCESSING

Max. Water content: 0.01 - 0.02 %

Drying temperature: 120 °C

Drying time:

Circulating air drying oven (50 % fresh air) 4-8 h

Fresh air dryer (high speed dryer) 2-4 h

Dry air dryer 2-3 h

PROCESSING

Melt temperature: 310-330 °C

Mold temperature: 80-130 °C

Use open nozzle.