

Product Texts

- MVR (300 °C/1.2 kg) 10 cm³/10 min
- flame retardant
- UL 94V-0/3.0 mm
- medium viscosity
- UV stabilized
- easy release

Partially bio-circular grade / Attributed via mass balance (according to ISCC PLUS Standard).

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
^[C] Melt volume-flow rate, MVR	10	cm³/10min	ISO 1133
Temperature	300	°C	-
Load	1.2	kg	-
Melt flow index, MFI	10	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	6.1	%	ISO 527
^[C] Nominal strain at break	>50	%	ISO 527
Flexural modulus, 23°C	2400	MPa	ISO 178
Flexural strength	99	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
Charpy notched impact strength, +23°C, 3mm	70	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	65	kJ/m²	ISO 180/1A
Izod notched impact strength	12	kJ/m²	ISO 180/1A
Temperature	-30	°C	-
^[C] Puncture - maximum force, +23°C	5400	N	ISO 6603-2
^[C] Puncture - maximum force, -30°C	6300	N	ISO 6603-2
^[C] Puncture energy, +23°C	60	J	ISO 6603-2
^[C] Puncture energy, -30°C	65	J	ISO 6603-2
Ball indentation hardness	115	MPa	ISO 2039-1

[C]: CAMPUS

Thermal properties	Value	Unit	Test Standard
ISO Data			
^[C] Glass transition temperature, 10°C/min	144	°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 1.5 mm nom. thickn.	V-2	class	IEC 60695-11-10
Thickness tested	1.5	mm	-
Yellow Card available	yes	-	-

^[C] Burning Behav. at thickness h	V-0	class	IEC 60695-11-10
Thickness tested	3.0	mm	-
Yellow Card available	yes	-	-
^[C] Oxygen index	36	%	ISO 4589-1/-2
Glow Wire Flammability Index (GWFI)	900	°C	IEC 60695-2-12
GWFI - thickness tested (1)	0.75	mm	-
Glow Wire Flammability Index (GWFI)	960	°C	IEC 60695-2-12
GWFI - thickness tested (2)	1.5	mm	-
Glow Wire Flammability Index (GWFI)	960	°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)	1.5	mm	-
Glow Wire Ignition Temperature (GWIT)	900	°C	IEC 60695-2-13
GWIT - thickness tested (3)	3	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	8	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	225	-	IEC 60112

[C]: CAMPUS

Optical properties	Value	Unit	Test Standard
ISO Data			
^[C] Luminous transmittance	89	%	ISO 13468-1, -2

[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	640	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	300	°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

Flame retardant, U.V. stabilized or stable to weather, Transparent, Opaque, Translucent

Certifications

Contains renewable resources, ISCC Plus

Regional Availability

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