

## Product Texts

- MVR (300 °C/1.2 kg) 12 cm³/10 min
- medium viscosity
- UV stabilized
- easy release
- automotive glazing
- roof modules

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

Processing/Physical Characteristics	Value	Unit	Test Standard
<b>ISO Data</b>			
<sup>[C]</sup> Melt volume-flow rate, MVR	12	cm³/10min	ISO 1133
Temperature	300	°C	-
Load	1.2	kg	-
Melt flow index, MFI	13	g/10min	ISO 1133
Temperature	300	°C	-
Load	1.2	kg	-
<sup>[C]</sup> Molding shrinkage, parallel	0.7	%	ISO 294-4, 2577
<sup>[C]</sup> Molding shrinkage, normal	0.8	%	ISO 294-4, 2577

[C]: CAMPUS

Mechanical properties	Value	Unit	Test Standard
<b>ISO Data</b>			
<sup>[C]</sup> Tensile Modulus	2400	MPa	ISO 527
<sup>[C]</sup> Yield stress	67	MPa	ISO 527
<sup>[C]</sup> Yield strain	6.1	%	ISO 527
<sup>[C]</sup> Nominal strain at break	>50	%	ISO 527
Flexural modulus, 23°C	2400	MPa	ISO 178
Flexural strength	98	MPa	ISO 178
<sup>[C]</sup> Tensile creep modulus, 1h	2200	MPa	ISO 899-1
<sup>[C]</sup> Tensile creep modulus, 1000h	1900	MPa	ISO 899-1
<sup>[C]</sup> 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	-	-
Charpy notched impact strength, -30°C, 3mm	14	kJ/m²	ISO 179/1eA
Type of failure	C	-	-
Izod notched impact strength, +23°C	70	kJ/m²	ISO 180/1A
Izod notched impact strength	15	kJ/m²	ISO 180/1A
Temperature	-30	°C	-
<sup>[C]</sup> Puncture - maximum force, +23°C	5400	N	ISO 6603-2
<sup>[C]</sup> Puncture - maximum force, -30°C	6300	N	ISO 6603-2
<sup>[C]</sup> Puncture energy, +23°C	60	J	ISO 6603-2
<sup>[C]</sup> 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
<b>ISO Data</b>			
<sup>[C]</sup> Glass transition temperature, 10°C/min	144	°C	ISO 11357-1/-2
<sup>[C]</sup> Temp. of deflection under load, 1.80 MPa	124	°C	ISO 75-1/-2
<sup>[C]</sup> Temp. of deflection under load, 0.45 MPa	136	°C	ISO 75-1/-2
<sup>[C]</sup> Vicat softening temperature, B	143	°C	ISO 306
<sup>[C]</sup> Coeff. of linear therm. expansion, parallel	65	E-6/K	ISO 11359-1/-2
<sup>[C]</sup> Coeff. of linear therm. expansion, normal	65	E-6/K	ISO 11359-1/-2
<sup>[C]</sup> Burning Behav. at thickness h	V-2	class	IEC 60695-11-10
Thickness tested	0.8	mm	-
Yellow Card available	yes	-	-

<sup>[C]</sup> Oxygen index	28	%	ISO 4589-1/-2
Glow Wire Flammability Index (GWFI)	850	°C	IEC 60695-2-12
GWFI - thickness tested (1)	1.5	mm	-
Glow Wire Flammability Index (GWFI)	930	°C	IEC 60695-2-12
GWFI - thickness tested (2)	3	mm	-

[C]: CAMPUS

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

[C]: CAMPUS

Optical properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Haze	0.8	-	ISO 14782
<sup>[C]</sup> Luminous transmittance	89	%	ISO 13468-1, -2

[C]: CAMPUS

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

[C]: CAMPUS

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

Test specimen production	Value	Unit	Test Standard
<b>ISO Data</b>			
<sup>[C]</sup> Injection Molding, melt temperature	290	°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, Transparent

**Certifications**

Contains renewable resources, ISCC Plus

**Applications**

Automotive

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