

## Product Texts

- MVR (300 °C/1.2 kg) 12 cm³/10 min
- medium viscosity
- easy release
- automotive exterior roof trim pillar appliques
- developed for high-gloss surfaces with highest requirements
- for the use in combination with hard coatings

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	65	MPa	ISO 527
<sup>[C]</sup> Yield strain	6	%	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> Charpy impact strength, +23°C	N	kJ/m²	ISO 179/1eU
<sup>[C]</sup> Charpy impact strength, -30°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	16	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	14	kJ/m²	ISO 180/1A
Temperature	-30	°C	-
<sup>[C]</sup> Puncture - maximum force, +23°C	5200	N	ISO 6603-2
<sup>[C]</sup> Puncture - maximum force, -30°C	6100	N	ISO 6603-2
<sup>[C]</sup> Puncture energy, +23°C	55	J	ISO 6603-2
<sup>[C]</sup> Puncture energy, -30°C	60	J	ISO 6603-2
Ball indentation hardness	115	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	143	°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

[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	<b>90</b>	E-4	IEC 62631-2-1
<sup>[C]</sup> Volume resistivity	<b>&gt;1E13</b>	Ohm*m	IEC 62631-3-1
<sup>[C]</sup> Surface resistivity	<b>&gt;1E15</b>	Ohm	IEC 62631-3-2
<sup>[C]</sup> Electric strength	<b>34</b>	kV/mm	IEC 60243-1
<sup>[C]</sup> Comparative tracking index	<b>250</b>	-	IEC 60112

[C]: CAMPUS

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

[C]: CAMPUS

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

Test specimen production	Value	Unit	Test Standard
<b>ISO Data</b>			
<sup>[C]</sup> Injection Molding, melt temperature	<b>290</b>	°C	ISO 294
Injection Molding, mold temperature	<b>80</b>	°C	ISO 294
Injection Molding, injection velocity	<b>200</b>	mm/s	ISO 294

[C]: CAMPUS

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

## Characteristics

### Processing

Injection Molding

### Delivery form

Pellets, Black

### Additives

Release agent

### Features

High Gloss

### Applications

Automotive

### Regional Availability

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