

**Product Texts**

- MVR (300 °C/1.2 kg) 2.0 cm<sup>3</sup>/10 min
- high viscosity
- food contact quality
- biocompatible according to many ISO 10993-1 test requirements
- pharmaceutical applications
- medical devices

Processing/Physical Characteristics	Value	Unit	Test Standard
<b>ISO Data</b>			
<sup>[C]</sup> Melt volume-flow rate, MVR	<b>2</b>	cm <sup>3</sup> /10min	ISO 1133
Temperature	<b>300</b>	°C	-
Load	<b>1.2</b>	kg	-
Melt flow index, MFI	<b>2.5</b>	g/10min	ISO 1133
Temperature	<b>300</b>	°C	-
Load	<b>1.2</b>	kg	-
<sup>[C]</sup> Molding shrinkage, parallel	<b>0.8</b>	%	ISO 294-4, 2577
<sup>[C]</sup> Molding shrinkage, normal	<b>0.8</b>	%	ISO 294-4, 2577

[C]: CAMPUS

Mechanical properties	Value	Unit	Test Standard
<b>ISO Data</b>			
<sup>[C]</sup> Tensile Modulus	<b>2300</b>	MPa	ISO 527
<sup>[C]</sup> Yield stress	<b>64</b>	MPa	ISO 527
<sup>[C]</sup> Yield strain	<b>6.6</b>	%	ISO 527
<sup>[C]</sup> Nominal strain at break	<b>&gt;50</b>	%	ISO 527
Flexural modulus, 23°C	<b>2300</b>	MPa	ISO 178
Flexural strength	<b>94</b>	MPa	ISO 178
<sup>[C]</sup> Charpy impact strength, +23°C	<b>N</b>	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy notched impact strength, +23°C, 3mm	<b>75</b>	kJ/m <sup>2</sup>	ISO 179/1eA
Type of failure	<b>P</b>	-	-
Charpy notched impact strength, -30°C, 3mm	<b>20</b>	kJ/m <sup>2</sup>	ISO 179/1eA
Type of failure	<b>C(P)</b>	-	-
Izod notched impact strength, +23°C	<b>65</b>	kJ/m <sup>2</sup>	ISO 180/1A
Izod notched impact strength	<b>55</b>	kJ/m <sup>2</sup>	ISO 180/1A
Temperature	<b>-30</b>	°C	-
<sup>[C]</sup> Puncture - maximum force, +23°C	<b>5500</b>	N	ISO 6603-2
<sup>[C]</sup> Puncture - maximum force, -30°C	<b>6400</b>	N	ISO 6603-2
<sup>[C]</sup> Puncture energy, +23°C	<b>55</b>	J	ISO 6603-2
<sup>[C]</sup> Puncture energy, -30°C	<b>60</b>	J	ISO 6603-2
Ball indentation hardness	<b>108</b>	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	<b>152</b>	°C	ISO 11357-1/-2
<sup>[C]</sup> Temp. of deflection under load, 1.80 MPa	<b>132</b>	°C	ISO 75-1/-2
<sup>[C]</sup> Temp. of deflection under load, 0.45 MPa	<b>145</b>	°C	ISO 75-1/-2
<sup>[C]</sup> Vicat softening temperature, B	<b>150</b>	°C	ISO 306
<sup>[C]</sup> Coeff. of linear therm. expansion, parallel	<b>70</b>	E-6/K	ISO 11359-1/-2
<sup>[C]</sup> Coeff. of linear therm. expansion, normal	<b>70</b>	E-6/K	ISO 11359-1/-2
<sup>[C]</sup> Oxygen index	<b>26</b>	%	ISO 4589-1/-2

[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.	15	g/(m <sup>2</sup> *d)	ISO 15106-1/-2

Test specimen production	Value	Unit	Test Standard
<b>ISO Data</b>			
<sup>[C]</sup> Injection Molding, melt temperature	310	°C	ISO 294
Injection Molding, mold temperature	90	°C	ISO 294
Injection Molding, injection velocity	200	mm/s	ISO 294

[C]: CAMPUS

## Characteristics

### Processing

Injection Molding, Blow Molding

### Delivery form

Pellets

### Special Characteristics

Transparent, Sterilizable

### Certifications

Food contact, Medical Grade, Biocompatibility ISO 10993, US Pharmacopeia Class VI Approved

### Applications

Medical

### Regional Availability

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