

**Product Texts**

**Medium viscosity polybutylene terephthalate resin with processing aids**

**VESTODUR® X4621** is a medium viscosity, fast solidifying polybutylene terephthalate resin (PBT).

VESTODUR® X4621 can be used for the injection molding process.

The resin is supplied as cylindrical granules, ready for processing.

For information about VESTODUR® X4621, please follow the general recommendations in our flyer “VESTODUR® Polybutylene terephthalate - Compounds”.

The use of colorants may affect property values.

Inside the original and undamaged packaging, the product has a shelf life of at least 2 years when stored in dry rooms at temperatures not exceeding 30°C.

The values presented are typical or average values, they do not constitute a specification.

FOR FURTHER INFORMATION PLEASE CONTACT US AT [EVONIK-HP@EVONIK.COM](mailto:EVONIK-HP@EVONIK.COM)

OR VISIT OUR PRODUCT AT [WWW.VESTODUR.COM](http://WWW.VESTODUR.COM)

Processing/Physical Characteristics	Value	Unit	Test Standard
<b>ISO Data</b>			
<sup>[C]</sup> Melt volume-flow rate, MVR	<b>14</b>	cm <sup>3</sup> /10min	ISO 1133
Temperature	<b>250</b>	°C	-
Load	<b>2.16</b>	kg	-
<sup>[C]</sup> Molding shrinkage, parallel	<b>1.6</b>	%	ISO 294-4, 2577
<sup>[C]</sup> Molding shrinkage, normal	<b>1.6</b>	%	ISO 294-4, 2577
<sup>[C]</sup> Density of melt	<b>1110</b>	kg/m <sup>3</sup>	-
<sup>[C]</sup> Thermal conductivity of melt	<b>0.19</b>	W/(m K)	-
<sup>[C]</sup> Spec. heat capacity of melt	<b>1700</b>	J/(kg K)	-

[C]: CAMPUS

Mechanical properties	Value	Unit	Test Standard
<b>ISO Data</b>			
<sup>[C]</sup> Tensile Modulus	<b>2600</b>	MPa	ISO 527
<sup>[C]</sup> Yield stress	<b>58</b>	MPa	ISO 527
<sup>[C]</sup> Yield strain	<b>10</b>	%	ISO 527
<sup>[C]</sup> Nominal strain at break	<b>40</b>	%	ISO 527
<sup>[C]</sup> Charpy impact strength, +23°C	<b>230</b>	kJ/m <sup>2</sup>	ISO 179/1eU
<sup>[C]</sup> Type of failure	<b>C(P)<sup>[C(P)]</sup></b>	-	-
<sup>[C]</sup> Charpy impact strength, -30°C	<b>205</b>	kJ/m <sup>2</sup>	ISO 179/1eU
<sup>[C]</sup> Type of failure	<b>C</b>	-	-
<sup>[C]</sup> Charpy notched impact strength, +23°C	<b>4</b>	kJ/m <sup>2</sup>	ISO 179/1eA
<sup>[C]</sup> Type of failure	<b>C</b>	-	-
<sup>[C]</sup> Charpy notched impact strength, -30°C	<b>4</b>	kJ/m <sup>2</sup>	ISO 179/1eA
<sup>[C]</sup> Type of failure	<b>C</b>	-	-
<sup>[C]</sup> Shore D hardness	<b>77</b>	-	ISO 7619-1

C(P): CAMPUS

Thermal properties	Value	Unit	Test Standard
<b>ISO Data</b>			
<sup>[C]</sup> Melting temperature, 10°C/min	<b>223</b>	°C	ISO 11357-1/-3
<sup>[C]</sup> Glass transition temperature, 10°C/min	<b>45</b>	°C	ISO 11357-1/-2
<sup>[C]</sup> Temp. of deflection under load, 1.80 MPa	<b>55</b>	°C	ISO 75-1/-2
<sup>[C]</sup> Temp. of deflection under load, 0.45 MPa	<b>160</b>	°C	ISO 75-1/-2

<sup>[C]</sup> Vicat softening temperature, B	<b>180</b>	°C	ISO 306
<sup>[C]</sup> Coeff. of linear therm. expansion, parallel	<b>110</b>	E-6/K	ISO 11359-1/-2
<sup>[C]</sup> Coeff. of linear therm. expansion, normal	<b>110</b>	E-6/K	ISO 11359-1/-2
<sup>[C]</sup> Burning Behav. at 1.5 mm nom. thickn. Thickness tested	<b>HB</b> <b>1.6</b>	class mm	IEC 60695-11-10 -
<sup>[C]</sup> Burning Behav. at thickness h Thickness tested	<b>HB</b> <b>0.8</b>	class mm	IEC 60695-11-10 -
<sup>[C]</sup> Oxygen index	<b>23</b>	%	ISO 4589-1/-2

[C]: CAMPUS

Electrical properties	Value	Unit	Test Standard
<b>ISO Data</b>			
<sup>[C]</sup> Relative permittivity, 100Hz	<b>3.3</b>	-	IEC 62631-2-1
<sup>[C]</sup> Relative permittivity, 1MHz	<b>3.5</b>	-	IEC 62631-2-1
<sup>[C]</sup> Dissipation factor, 100Hz	<b>20</b>	E-4	IEC 62631-2-1
<sup>[C]</sup> Dissipation factor, 1MHz	<b>230</b>	E-4	IEC 62631-2-1
<sup>[C]</sup> Surface resistivity	<b>1E13</b>	Ohm	IEC 62631-3-2
<sup>[C]</sup> Comparative tracking index	<b>600</b>	-	IEC 60112

[C]: CAMPUS

Other properties	Value	Unit	Test Standard
<sup>[C]</sup> Water absorption	<b>0.45</b>	%	Sim. to ISO 62
<sup>[C]</sup> Humidity absorption	<b>0.13</b>	%	Sim. to ISO 62
<sup>[C]</sup> Density	<b>1310</b>	kg/m <sup>3</sup>	ISO 1183

[C]: CAMPUS

Test specimen production	Value	Unit	Test Standard
<b>ISO Data</b>			
<sup>[C]</sup> Processing conditions acc. ISO	<b>7792</b>	-	ISO ....-2
<sup>[C]</sup> Injection Molding, melt temperature	<b>260</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
Injection Molding, pressure at hold	<b>70</b>	MPa	ISO 294

[C]: CAMPUS

**Characteristics**

**Processing**

Injection Molding, Film Extrusion

**Delivery form**

Pellets, Granules

**Regional Availability**

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