

**Product Texts**

**VOLTALEF 302 resin** is a fluorinated polymer which presents an exceptional behavior at very low temperatures. It is usable in continuation from -200°C to 150°C with allowable peaks at 200°C. It is non-inflammability, has excellent chemical and radiation resistance, good barrier properties, is insensitivity to oxygen and water with good electrical properties.

The processing is critical but can be done by extrusion, injection and compression molding.

Mechanical properties	Value	Unit	Test Standard
<b>ISO Data</b>			
<sup>[C]</sup> Tensile Modulus	<b>1400</b>	MPa	ISO 527
<sup>[C]</sup> Yield stress	<b>43</b>	MPa	ISO 527
<sup>[C]</sup> Yield strain	<b>7</b>	%	ISO 527
<sup>[C]</sup> Nominal strain at break	<b>&gt;50</b>	%	ISO 527
<sup>[C]</sup> Charpy notched impact strength, +23°C	<b>80</b>	kJ/m <sup>2</sup>	ISO 179/1eA

[C]: CAMPUS

Thermal properties	Value	Unit	Test Standard
<b>ISO Data</b>			
<sup>[C]</sup> Melting temperature, 10°C/min	<b>214</b>	°C	ISO 11357-1/-3
<sup>[C]</sup> Glass transition temperature, 10°C/min	<b>55</b>	°C	ISO 11357-1/-2
<sup>[C]</sup> Temp. of deflection under load, 1.80 MPa	<b>70</b>	°C	ISO 75-1/-2
<sup>[C]</sup> Temp. of deflection under load, 0.45 MPa	<b>126</b>	°C	ISO 75-1/-2
<sup>[C]</sup> Oxygen index	<b>100</b>	%	ISO 4589-1/-2

[C]: CAMPUS

Electrical properties	Value	Unit	Test Standard
<b>ISO Data</b>			
<sup>[C]</sup> Volume resistivity	<b>2E12</b>	Ohm*m	IEC 62631-3-1
<sup>[C]</sup> Surface resistivity	<b>1E15</b>	Ohm	IEC 62631-3-2
<sup>[C]</sup> Electric strength	<b>21</b>	kV/mm	IEC 60243-1

[C]: CAMPUS

Other properties	Value	Unit	Test Standard
<sup>[C]</sup> Water absorption	<b>0.01</b>	%	Sim. to ISO 62
<sup>[C]</sup> Humidity absorption	<b>0.01</b>	%	Sim. to ISO 62
<sup>[C]</sup> Density	<b>2130</b>	kg/m <sup>3</sup>	ISO 1183

[C]: CAMPUS

**Characteristics**

**Processing**

Injection Molding, Film Extrusion, Other Extrusion, Transfer Molding

**Delivery form**

Powder

**Special Characteristics**

Light stabilized or stable to light, U.V. stabilized or stable to weather, Heat stabilized or stable to heat

**Regional Availability**

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