

**SKYPLETE GE500**

PETG

SK Chemicals

**Product Texts**

SK Chemicals has developed SKYPLETE GE500 which offers excellent properties for 3D printing filaments.

<b>Processing/Physical Characteristics</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ASTM Data</b>			
Mold Shrinkage, MD	<b>0.0045</b>	mm/mm	ASTM D 955

<b>Mechanical properties</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ISO Data</b>			
Yield stress	<b>55</b>	MPa	ISO 527
Yield strain	<b>4.3</b>	%	ISO 527
Stress at break	<b>25</b>	MPa	ISO 527
Strain at break	<b>260</b>	%	ISO 527
Flexural modulus, 23°C	<b>2110</b>	MPa	ISO 178
Flexural strength	<b>74</b>	MPa	ISO 178
Izod notched impact strength, +23°C	<b>10.4</b>	kJ/m <sup>2</sup>	ISO 180/1A

<b>Thermal properties</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ISO Data</b>			
Temp. of deflection under load, 1.80 MPa	<b>58</b>	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	<b>66</b>	°C	ISO 75-1/-2

<b>Optical properties</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ASTM Data</b>			
Haze	<b>1</b>	%	ASTM D 1003
Light Transmittance	<b>90</b>	%	ASTM D 1003

<b>Other properties</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
Density	<b>1290</b>	kg/m <sup>3</sup>	ASTM D 792

**Characteristics****Processing**

Additive Manufacturing

**Applications**

Filament for 3D Printing

**Special Characteristics**

Transparent

**Regional Availability**

North America, Europe, Asia Pacific, South and Central America