

SKYPLETE GE300

PETG

SK Chemicals

SK Chemicals has developed SKYPLETE GE300 which offers excellent properties for 3D printing filaments.

Processing/Physical Characteristics	Value	Unit	Test Standard
-------------------------------------	-------	------	---------------

ASTM Data

Mold Shrinkage, MD	0.0035	mm/mm	ASTM D 955
Density, 73°F	1270	kg/m ³	ASTM D 792

Mechanical Properties	Value	Unit	Test Standard
-----------------------	-------	------	---------------

ISO Data

Yield stress	49	MPa	ISO 527
Yield strain	4.1	%	ISO 527
Stress at Break	23	MPa	ISO 527
Strain at Break	40	%	ISO 527
Flexural Modulus (23°C)	1890	MPa	ISO 178
Flexural strength	67	MPa	ISO 178
Notched Impact Strength (Izod), 23°C	7	kJ/m ²	ISO 180/1A

ASTM Data

Rockwell Hardness	R 105	-	ASTM D 785
-------------------	-------	---	------------

Thermal Properties	Value	Unit	Test Standard
--------------------	-------	------	---------------

ISO Data

Temp. of deflection under load (1.80 MPa)	62	°C	ISO 75-1/-2
Temp. of deflection under load (0.45 MPa)	72	°C	ISO 75-1/-2

Optical Properties	Value	Unit	Test Standard
--------------------	-------	------	---------------

ASTM Data

Haze	1	%	ASTM D 1003
Light Transmittance	90	%	ASTM D 1003

Characteristics

Processing

Additive Manufacturing

Special Characteristics

Transparent