

SOLIDSPACE TECHNOLOGY LLP

C 122-123, BEHIND SAKAL OFFICE,
MIDC SATPUR NASHIK, MAHARASHTRA,
422007, INDIA

CONTACT: +91-7588204010

GSTIN: 27ADBFS6457M1ZH

www.solidspace.co.in



DATE: 03/02/2021

COMPANY PROFILE



SolidSpace Technology LLP is a leading filament manufacturing industry in India and specialized in best quality oriented multi-material thermoplastic filaments production for FDM 3D printing. Established in 2016 and serving diversified clients with delightful 3D printing experience.

Our manufactured filaments are trusted in all versatile application applications like aerospace, automotive, medical, low volume production, defence, interior designing, gifting and so on.

PRODUCT CATALOGUE

PLA+

IT'S TIME FOR UPGRADE TO NEXT LEVEL

Solidspace PLA+ 1.75mm/2.85mm 3D Printing Filament is an upgrade to normal PLA with enhanced required properties for best 3D printing results. It is suitable for all open source 3D printers available in market and can replace PLA completely.



Available in wide range of premium colors options

- PLA + can produce smoother finished printouts with no cracking or brittle problem.
- PLA+ print temperature is about 5-10 degree celsius higher than regular PLA. Most user prints at around 210 to 220 Celsius.
- During printing PLA+ provides results in better flow rate and thermal stability compare to PLA.
- Prints are smoother with better surface finish, highly rigid and and tougher compare to normal PLA.
- Colours are improvised with addition of ingredients will results in more premium quality prints.
- Printing can be done comparatively at higher print speed can improve printing productivity.
- Much improved post processing properties can be achieved through PLA+ than PLA.

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PLA+

Product features:

- Best grade material, sticks easily to print bed
- 1.75/2.85 mm Filament Diameter (Dimensional Accuracy +/- 3% of diameter).
- Vacuumed Sealed with Desiccant and box packed.
- Recommended Extrusion/Nozzle Temperature 190°C - 210°C and Heated bed 50°C -60°C.
- Available in multiple colour options.
- Tailor made colour available for order of more than 50 kg.

Technical Data:

Property, Test Condition	Standard (ASTM)	Unit	values
Rheological Properties			
Melt flow index	D1238	gms/10 min	7
Mechanical Properties			
Tensile Yield Strength,	ISO 527-1	psi (MPa)	45
Tensile Modulus	D638	psi (MPa)	3,500
Thermal Properties			
Melting Point	D3418	°C	155-170
Glass Transition Temperature	D3418	°C	60
Other Properties			
Specific gravity	D D792	g/cc	1.24

CURRENT AVAILABILITY OF COLOURS:



WHITE



BLACK



RED



ORANGE



YELLOW



GREEN



BLUE



SKY BLUE



LIME GREEN



METALIC SILVER



GOLD



PEARL WHITE



DARK GREY



NATURAL



PINK



PURPLE



BROWN



SKIN

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ABS

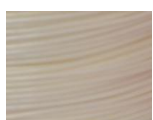
Product features:

- Best grade material, sticks easily to print bed, no warping or crack under control print condition.
- 1.75/2.85 mm Filament Diameter (Dimensional Accuracy +/- 3% of diameter).
- Vacuumed Sealed with Desiccant and box packed.
- Recommended Extrusion/Nozzle Temperature 225°C - 255°C and Heated bed 100°C -110°C.
- Available in multiple colour options.
- Tailor made colour available for order of more than 50 kg.

Technical Data:

Property, Test Condition	Standard	Unit	values
Rheological Properties			
Melt flow index 220 °C/10 kg	ISO 1133	gms/10 min	35
Mould Shrinkage	D 955	%	0.4-0.6
Mechanical Properties			
Rockwell Hardness	ISO 2039/2	R-Scale	105
Tensile Strength at yield (50 mm /min)	D 638	Kg/cm2	525
Tensile Modulus (50 mm /min)	D 638	Kg/cm2	27,000
Flexural strength (5mm/min)	D 790	Kg/cm2	750
Flexural modulus(5mm / min)	D 790	Kg/cm2	26,000
Izod notched impact strength (at 1/4" thickness)	D 256	Kg cm/cm	21
Izod notched impact strength (at 1/8" thickness)	D 256	Kg cm/cm	24
Thermal Properties			
Vicat Softening Temperature	D 1525	°C	97
Heat Deflection Temperature (annealed 80°C/ 4 Hrs , 1.80 MPA)	D 648	°C	92
Heat Deflection Temperature (annealed 80 °C/ 4Hrs; 0.45 MPa)	D 648	°C	96
Other Properties			
Specific gravity	D 792		1.04

CURRENT AVAILABILITY OF COLOURS:



NATURAL



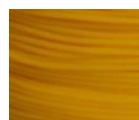
WHITE



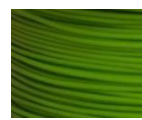
BLACK



RED



YELLOW



FL GREEN



BLUE



GREY

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PETG

Product features:

- Best grade material, sticks easily to print bed, strong layer adhesion.
- 1.75/2.85 mm Filament Diameter (Dimensional Accuracy +/- 3% of diameter).
- Vacuumed Sealed with Desiccant and box packed.
- Recommended Extrusion/Nozzle Temperature 230°C - 250°C and Heated bed 60°C -70°C.
- Available in multiple colour options.
- Tailor made colour available for order of more than 50 kg.

Technical Data:

Property, Test Condition	Standard	Unit	Values
Mechanical Properties			
Rockwell Hardness	D 785	R-scale	112
Tensile Strength at yield (50 mm /min)	D 638	MPa	57
Tensile Strength at break (50 mm /min)	D 638	MPa	22
Elongation at yield (50 mm /min)	D 638	%	4.5
Elongation at break (50 mm /min)	D 638	%	120
Flexural strength	D 790	MPa	80
Flexural modulus	D790	MPa	2282
Izod impact (Notched)	D 256	J/m	Not Breaking
Thermal Properties			
Heat Deflection Temperature (Unannealed , 1.80 MPA)	D 648	°C	63
Other Properties			
Specific gravity	D 792		1.29

CURRENT AVAILABILITY OF COLOURS:



NATURAL

RED

BLACK

WHITE

ROYAL BLUE

BRIGHT GREEN

GREY

YELLOW

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HIPS

Product features:

- Can be used as primary material or dissolvable support material for ABS or PC-ABS.
- Best grade material, sticks easily to print bed, no warping or crack under control print condition.
- 1.75/2.85 mm Filament Diameter (Dimensional Accuracy +/- 3% of diameter).
- Vacuumed Sealed with Desiccant and box packed.
- Recommended Extrusion/Nozzle Temperature 225°C - 245°C and Heated bed 100°C -110°C.
- Available in natural white.

Technical Data:

Property, Test Condition	Standard	Unit	values
Rheological Properties			
Melt flow index 200 °C/5 kg	D 1238	gms/10 min	10
Mechanical Properties			
Rockwell Hardness			
Tensile Strength at yield (50 mm /min)	D 638	MPa	24
Tensile Modulus (50 mm /min)	D 638	%	0.50
Flexural strength	D 790	MPa	37
Flexural modulus	D790	MPa	1800
Izod impact (Notched)	D 256	J/m	100
Thermal Properties			
Vicat Softening Temperature	D 1525	°C	97
Heat Deflection Temperature (Unannealed , 1.80 MPA)	D 648	°C	76
Other Properties			
Specific gravity	D 792		1.03

CURRENT AVAILABILITY OF COLOURS:



NATURAL

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TPU

Product features:

- Best grade material, sticks easily to print bed and excellent layer adhesion.
- 1.75mm Filament Diameter (Dimensional Accuracy +/- 3% of diameter).
- Vacuumed Sealed with Desiccant and box packed.
- Recommended Extrusion/Nozzle Temperature 220°C - 240°C and Heated bed 50°C -30°C.

Technical Data:

Property, Test Condition	Standard (ASTM)	Unit	values
Shore Hardness	D2240	Shore A	90
Tensile Strength,	D638	psi (MPa)	18
Elongation at Break	D638	%	530
Specific gravity	D D792	g/cc	1.21

CURRENT AVAILABILITY OF COLOURS:



WHITE

MAIL US: sales@solidspace.co.in FOR FURTHER INFORMATION OR CALL ON +91-8983783670/7588204010.