eco

Flexible TPU General Information
Thermoplastic polyurethane (TPU) : polyurethane plastics with many useful properties, including elasticity, transparency, and resistance to oil, grease and abrasion. Technically, they are thermoplastic elastomers consisting of linear segmented block copolymers composed of hard and soft segments.   TPU is one class of TPE.

Flexible TPU Technical Data(64D)			
Property	Test Method	Unit	Typical Values
Hardness	DIN ISO 7619-1	Shore D	90A
Density	DIN EN ISO 1183-1-A	g/cm^3	1.24
Tensile Strength	DIN 53504-S2/ISO 37	MPa	50
Elongation at break	DIN 53504-S2/ISO 37	%	550
Stress at 20% elongation	DIN 53504-S2/ISO 37	MPa	8
Stress at 100% elongation	DIN 53504-S2/ISO 37	MPa	11
Stress at 300% elongation	DIN 53504-S2	MPa	20
Tear Strength	DIN ISO 34-1Bb	N/mm	120
Abrasion Loss	DIN ISO 4649-A	mm^3	30
Compression set at room temperature	DIN ISO 815	%	25
Compression set at 70°c	DIN ISO 815	%	45
Notched impact strength (Charpy) +23°C -30℃	DIN EN ISO 179-1	kg/m^2	no break 14

Flexible TPU Filament Tolerance		
	Tolerance	Diameter Range
TPU 1.75mm Filament	0.1mm	1.65mm~1.82mm
TPU 3.00mm Filament	0.1mm	2.80mm~3.00mm

Flexible TPU Filament Color Choice	
Current Color	Transparent,Black,Grey,Blue
Coming Soon	White,Red,Orange,Yellow,Green,Purple

Flexible TPU Filament Print Suggestion	
Print Temperature	185-235°C
Bed Temperature	70°C
Cooling	Need
Printers Tested	MakerBot Replicator2,MakerBotReplicator2(X),RepRapProMono, RepRapPro Ormerod,FelixV3,EZ Printer,MostFun,Airwolf3D HD

Flexible TPU Filament Showcase

TPU-Transparent	TPU-White	TPU-Black	TPU-Grey
TPU-Red	TPU-Blue	TPU-Green	TPU-Yellow