

TPU 90A

Overview

Jabil Engineered Materials, TPU 90A is an easy processing, standard product for printing jobs requiring elastomeric properties. This filament is ideal when low scratch and mar or soft touch feel are needed and improved impact strength. TPU materials have good chemical resistance and an operating temperature range of -40°C to 95°C.



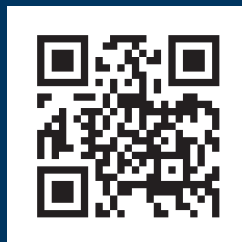
Applications:

- Jigs, fixtures & tooling
- Touch pads
- Grips
- Soft feet with low CoF
- Seals

Advantages:

- Easy Printability – low shrinkage and warpage
- Excellent elastomeric properties and impact strength
- Abrasion resistance and soft touch properties
- Very consistent lot to lot print properties with a ISO 9001 Certificate of Analysis with every spool

Scan for more information:



TPU 90A



Print Temperature

The optimal printing range is 220°C to 230°C.



Bed Temperature

Up to 50°C.



Printing Speed

Base printing speed of 20 mm/s
Infill speed of 15 mm/s
Wall speed of 18 mm/s
Initial layer speed of 15 mm/s



Cooling

For the best results cool to 100%.



Other Tips

PETg sticks well to PVA based glue.



Colors Available

Natural Black



Diameters Available

1.75mm & 2.85mm

Scan to get
print profiles:



Mechanical Properties

	Test Condition	Typical Value	Method
Tensile Modulus (psi)	X coupons, Ambient	2800	ASTM D638
Tensile Elongation at Break (%)		450	
Tensile Yield Strength (psi)		580	
Ultimate Tensile Strength (psi)		1900	
Tear Strength (N/mm)	Ambient	84	ASTM D624
Hardness (Shore A)	Ambient	90-95	ASTM D2240

Thermal Properties

	Test Condition	Typical Value	Method
Heat Deflection Temperature (°C)	0.45 Mpa	44	ASTM D648-16, Method B

Other Physical Properties

	Test Condition	Typical Value	Method
Density (g/cm ³)	Ambient	1.2	ASTM D792-13, Method A