Jabil TPU 90A Filament

Technical Data Sheet

Product Description

Jabil Engineered Materials TPU 90 A is an easy processing, standard product for printing jobs requiring elastomeric properties like compression set or soft touch to prevent scratching and marring, with high impact strength. Applications include jigs, fixtures and tooling, touch pads, grips, feet and other parts that requiring elastomeric properties. This material has a print profile available on Ultimaker Cura Marketplace and produces excellent surface parts that can be printed at max speeds with minimal shrinkage.

Advantages

Easy printability, excellent elastomeric properties and impact strength, abrasion resistance and soft touch properties. This product has very consistent lot to lot print properties with an ISO 9001 Certificate of Analysis with every spool.



Storage and Use

TPU is highly hygroscopic, meaning it will absorb and retain moisture from the atmosphere, affecting visual quality and mechanical properties. For best results, print and store filament in a dry environment. If necessary, dry filament in an oven at 80 °C (175 °F) for 3 hours.

For the latest print profiles, search for Jabil Engineered Materials in the Cura Marketplace.

For complete copies of the Print Settings and the Printing & Drying Guide, visit our TPU 90 A Webpage.

Properties

Mechanical Properties ¹					
	Test Condition	Typical Value	Method		
Tensile Modulus (psi)	XY coupons, Ambient	2800	ASTM D638		
Tensile Yield Strength (psi)		580			
Tensile Elongation at Break (%)		450			
Ultimate Tensile Strength (psi)		1900			
Hardness (Shore A)	Ambient	90-95	ASTM D624		
Tear Strength (N/mm)	Ambient	84	ASTM D2240		

^{1.} Typical values are for reference only.

Thermal Properties				
	Test Condition	Typical Value	Method	
Heat Deflection Temperature (°C)	0.45 Mpa	44	ASTM D648, Method B	
Melting Point (°C)	Ambient	220	DSC	

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Other Physical Properties				
	Test Condition	Typical Value	Method	
Density (g/cm³)	Ambient	1.13	ASTM D792, Method A	

Dimensional Properties					
	Test Condition	Typical Value	Method		
Diameter: Mean, X, Y, and Z (mm)	Ambient	+/- 0.05	Laser Micrometer		

Disclaimer: The information in this technical data sheet, including material properties, are obtained from testing representative samples under carefully controlled conditions and are provided for reference only. Material properties may be impacted by storage, handling, processing equipment/parameters, and product design, among other factors. The information is not a substitute for user testing to determine fitness for any specific use and the user is responsible for ensuring safe and lawful use of the product.

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