

Product Description

Jabil Engineered Materials PETG 0800 ESD is an easy processing, Electrostatic Dissipative (ESD) product for printing parts that require protection from electrostatic discharge. This product has high strength and stiffness with a good balance of properties in XY and Z directions and the added benefit of ESD for Jigs, Fixtures and Tooling that needs to safely handle electronic components.

Advantages

Applications include Jigs, Fixtures and Tooling, housings and components where permeant static dissipation is required. Produces excellent surface quality parts that can be printed at max speeds with minimal shrinkage.

Storage and Use

PETG is a hygroscopic material, meaning it will absorb 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 65 °C (150 °F) for 6 – 12 hours.

[Download Jabil's optimized print profile by clicking here.](#)

Properties

Mechanical Properties¹			
	Test Condition	Typical Value	Method
Tensile Modulus (ksi)	XY coupons, Ambient	248	ASTM D638
Tensile Elongation at Break (%)		11	
Ultimate Tensile Strength (psi)		6800	
Flexural Modulus (ksi)	Ambient	245	ASTM D790 Procedure B
Flexural Strength (psi)		1000	

1. Typical values are for reference only.

Thermal Properties			
	Test Condition	Typical Value	Method
Heat Deflection Temperature (°C) ¹	0.45 Mpa	71	ASTM D648, Method B

Other Physical Properties			
	Test Condition	Typical Value	Method
Density (g/cm ³)	Ambient	1.28	ASTM D792, Method A

Electrical Properties			
	Test Condition	Typical	Method
Surface Resistance (Ohm/sq)	Ambient	$10^5 - 10^9$	ASTM D257

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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