

# CTPU-30

## PRODUCT DESCRIPTION

Jabil's ether-based TPU pellet boasts a high level of electrical conductivity, making it ideal for use in industries such as electronics, automotive, and aerospace. With excellent mechanical properties and a wide temperature range, this pellet can withstand harsh environments and extreme conditions without compromising its conductivity.

This pellet is easy to process, whether you are using an extrusion or injection molding machine. Its consistent and uniform size ensures reliable and consistent output every time. Its unique formulation also ensures that it is compatible with a wide range of processing conditions, making it a versatile choice for your manufacturing needs.

## PROPERTIES

### MECHANICAL PROPERTIES<sup>1</sup>

	Test Condition	Typical Values	Method
Tensile Modulus (MPa)	IM Coupons	128	ASTM D638, Type I
Tensile Stress @ 10% Elongation (MPa)	IM Coupons	8.6	ASTM D638, Type I
Tensile Stress @ 100% Elongation (MPa)	IM Coupons	18.8	ASTM D638, Type I
Tensile Elongation at Break (%)	IM Coupons	280	ASTM D638, Type I
Ultimate Tensile Strength (MPa)	IM Coupons	21.9	ASTM D638, Type I
Tear Strength (N/mm)	IM Coupons	78	ASTM D638, Type I

<sup>1</sup>Testing conducted on coupons molded at 210°C. Typical values are for reference only.

### THERMAL PROPERTIES

	Test Condition	Typical Values	Method
Melt Onset Temperature (°C)	20°C/min ramp	167	

### ELECTRICAL PROPERTIES

	Test Condition	Typical Values	Method
Surface Resistivity (ohms/square)	Ambient	4E+03	ASTM D257

## OTHER PHYSICAL PROPERTIES

	Test Condition	Typical Values	Method
Density (g/cm <sup>3</sup> )	Ambient	1.26	ASTM D792
Shore A Hardness	Ambient	96	ASTM D2240
Shore D Hardness	Ambient	62	ASTM D2240

\*Burn properties are highly dependent upon printer settings and part geometry. Suitability for an application is the responsibility of the user.

"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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