



Technical Data Sheet: ESD-TPU 60D

Introducing the new and improved 3DXSTAT ESD-TPU. Reformulated for easier printability without compromising the mechanical performance customers rely on, this material is ready for applications which require a balance of static dissipation, flexibility, and strength. With a hardness of 60D and impressive impact resistance even at -30°C, ESD-TPU is ready to protect delicate electronics from physical damage, not just electrical surges.

Mechanical Properties	Testing Standard	Testing Condition	Unit	Typical Value
Tensile Modulus	ISO 527-2	23°C, 1 mm/min	MPa	295
Flexural Modulus	ISO 178	23°C	MPa	310
Tensile Stress at Yield	ISO 527-2	23°C, 50 mm/min	MPa	17
Tensile Strain at Yield	ISO 527-2	23°C, 50 mm/min	%	35
Tensile Stress at Break	ISO 527-2	23°C, 50 mm/min	MPa	28
Tensile Strain at Break	ISO 527-2	23°C, 50 mm/min	%	>50

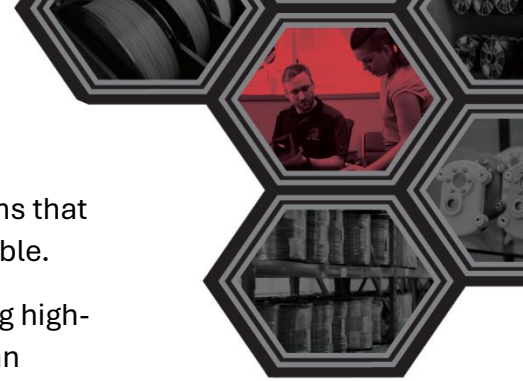
Electrical Properties	Testing Standard	Unit	Typical Value
Volume Resistance	IEC 62631-3-1	Ohm/m	10 ⁵
Surface Resistance	IEC 62631-3-2	Ohm/sq	10 ³



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Mission: To inspire creators by delivering innovative manufacturing solutions that empower professionals to solve complex challenges once thought impossible.

Vision: Become a trusted partner for demanding applications by developing high-performance materials that fuel sustainable design and engineering, with an unwavering commitment to continuous improvement.



Physical Properties	Testing Standard	Unit	Typical Value
Density	ISO 2781	g/cm ³	1.18
Hardness, 15 Second	ISO 868	Shore D	120

Impact Properties	Testing Standard	Testing Condition	Unit	Typical Value
Charpy Impact Strength, Unnotched	ISO 179 1eU	23°C	kJ/m ²	No Break
Charpy Impact Strength, Unnotched	ISO 179 1eU	-30°C	kJ/m ²	No Break
Charpy Impact Strength, Notched	ISO 179 1eA	23°C	kJ/m ²	No Break
Charpy Impact Strength, Notched	ISO 179 1eA	-30°C	kJ/m ²	17

Printer	Nozzle Temp (°C)	Bed Temp (°C)	Chamber Temp (°C)	Layer Height (mm)
Bambu X1C	230	50	N/A	0.2

Disclaimer: The technical data contained on this data sheet is furnished without charge or obligation and accepted at the recipient's sole risk. This data is preliminary and should not be used to establish specifications limits or used alone as the basis of design. The data provided is not intended to substitute for any testing that may be required to determine fitness for any specific use.

