



**Technical Data for TierTime TPU Material**

**01/01/2024**

Filament Name	TierTime TPU			
Weight	500g/1kg	Price (kg)		
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#	Properties	Testing Methods	Unit	Value
1	Density	ISO 1183	g/cm3	1.2
2	Mold Shrinkage	ASTM D955	%	
3	Melt Flow Index	ASTM D1238 ISO 1183	g/10min	
4	Melt viscosity	ASTM D3825		
5	Rockwell hardness	ASTM D785		95
6	Tensile Yield Strength	ASTM D638	MPa	20
7	Tensile Breaking Strength	ASTM D638		
8	Elongation at Break	ASTM D638	%	
9	Elongation at Yield	ASTM D638	%	
10	Tensile Modulus	ASTM D638	MPa	
11	Flexural Strength	ASTM D790	MPa	
12	Flexural Modulus	ASTM D790	MPa	
13	Izod Impact Strength	ASTM D256	KJ/m2	
14	Vicat Softening Point	ASTM D1525	°C	
15	Flammability	UL94-2013	1.6 mm	
16	Heat Deflection Temperature	ASTM D648	°C	
18	Moisture Content	ASTM D6890	%	0.7
19	Elongation	ASTM D412_16	%	250