



PLA++ Physical Properties Datasheet

Property	Test Method	Value	Comment
Melt Flow Index/ g/10 mins	ASTM D1238	5 – 15	Dependent on color. Tested at < 400 ppm moisture
Density/ gcm ⁻³	ASTM D792	1.24	Resin Manufacturer data
Glass transition temperature/ °C	ASTM D3418	55-60	Resin Manufacturer data
Heat Deflection Temperature/ °C *	ASTM D648 at 66 psi	51	
Flexural Modulus/ kpsi	ASTM D790	330	
Tensile Strength at Break/ psi *	ASTM D638, Type IV	3640	
Tensile Strength at Yield/ psi *	ASTM D638, Type IV	4560	
Tensile Elongation/ % *	ASTM D638, Type IV	3.0	
Tensile Modulus/ kpsi *	ASTM D638, Type IV	290	
Notched Izod Impact/ Jm ⁻¹ *	ASTM D256	190	
Chemical Resistance	Unknown	<ul style="list-style-type: none"> • Toluene: Sparingly soluble • Isopropyl alcohol: Insoluble • Heptane: Slightly soluble 	Resin Manufacturer data

* 3D printed test specimens, 100 % solid, y-axis orientation