



## 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 <sup>-3</sup>	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	53	
Flexural Modulus/ kpsi	ASTM D790	275	
Tensile Strength at Break/ psi *	ASTM D638, Type IV	3640	
Tensile Strength at Yield/ psi *	ASTM D638, Type IV	5604	
Tensile Elongation/ % *	ASTM D638, Type IV	3.0	
Tensile Modulus/ kpsi *	ASTM D638, Type IV	336	
Notched Izod Impact/ Jm <sup>-1</sup> *	ASTM D256	95	
Chemical Resistance	Unknown	<ul style="list-style-type: none"> <li>• Toluene: Sparingly soluble</li> <li>• Isopropyl alcohol: Insoluble</li> <li>• Heptane: Slightly soluble</li> </ul>	Resin Manufacturer data

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