

# Nicosin Extrusion, Inc.

## 3D Printing Filament Properties

### PLA Filament

Physical Properties	Nominal Value	ASTM Method
Specific Gravity	1.24	D792
Melt Index, g/10 min (210°C/2. 16Kg)	7-May	D1238
<b>Mechanical Properties</b>		
Tensile Strength @ Break, psi (Mpa)	7,700 (53)	D882
Tensile Yield Strength, psi (Mpa)	8,700 (60)	D882
Tensile Modulus, kpsi (Gpa)	500 (3.5)	D882
Tensile Elongation, %	6	D882
Notched Izod Impact, ft-lb/in (J/m)	0.24 (12.81)	D256

All Properties Are Tested Properties Of The Raw Materials  
Actual Properties Of Printed Items Should Be Tested By The Customer