



ISO 9001 Registered Quality System,  
Burlington, Ontario, Canada QMI File # 804008

# Premium 3D Printer Filaments – PLA

PLA

## Benefits & Features

- 1.75mm and 3.0mm diameters
- Vivid colors
- Low Diameter variance
- High Purity USA made PLA pellets
- Colors as unique as Skin, Gold, Silver, Glow In The Dark, etc.

Typical Material & Application Properties (1,2,3)			
Film Properties		Ingeo 4032D	ASTM Method
Density	-	1.24 g/cc	D1505
Tensile Strength	MD TD	15 kpsi 21 kpsi	D882 D882
Tensile Modulus	MD TD	500 kpsi 550 kpsi	D882 D882
Elongation at Break	MD TD	180% 100%	D882 D882
Elmendorf Tear	MD TD	17 g/mil 14 g/mil	D1922 D1922
Spencer Impact	-	2.5 joules	-
Transmission Rates	Oxygen Carbon Dioxide Water Vapor	675 cc-mil/m <sup>2</sup> -24hr-atm 2,850 cc-mil/m <sup>2</sup> -24hr-atm 375 g-mil/m <sup>2</sup> -24hr-atm	D1434 Internal F1249
Optical Characteristics	Haze Gloss, 20°	2.1% 90	D1003 D1003
Thermal Characteristics	Melting Point	155-170°C	D3418
Suggested Printing Temperature	190°C - 200°C	-	-

Quality Control		
Diameter Tolerance	1.75mm: 1.7+/-0.1mm	3.0mm: 2.95+/-0.1mm
Round Tolerance	+/-0.05mm	

## Technical Support

Contact us regarding any questions, improvement suggestions, or problems with this product. Application notes, instructions, and FAQs are located at [www.mgchemicals.com](http://www.mgchemicals.com).

Email: [support@mgchemicals.com](mailto:support@mgchemicals.com)

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## Shelf Life and Storage

- For best results use within six months after opening package.
- Store in air tight bag with desiccant when not in use.
- Store in a cool, dry non humid area.

## Warranty

M.G. Chemicals Ltd. warrants this product for 90 days from the date of purchase by the end user. M.G. Chemicals Ltd. makes no claims as to shelf life of this product for the warranty. The liability of M.G. Chemicals Ltd. whether based on its warranty, contracts, or otherwise shall in no case include incidental or consequential damage.

## Disclaimer

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