

# GEO PLA

## Technical Data Sheet

3DTomorrow Geo PLA is a modified PLA based filament with non-abrasive additives that provide printed parts with a stone look effect and slightly rougher feel. The modifications provide desirable aesthetics with minimal material differences to that of regular PLA. Geo PLA is suitable for all types of FDM/FFF 3D Printer. Due to the additives a minimum 0.4mm nozzle is recommended for printing.

OVERVIEW	
Trade Name	3DTomorrow Geo PLA
Chemical Name	Polylactic Acid
Available Colours	Aged Granite, Cotswold Limestone.
Available Sizes	1.75mm

FILAMENT SPECIFICATION		
Size	Ø Tolerance	Roundness
1.75mm	± 0.05mm	≥ 95%

MATERIAL PROPERTIES		
Description	Typical	Test Method
Density	1.24g/cm <sup>3</sup>	ISO 1183
Material Flow Rate @ 210°C ~ 2.16kg	9g / 10 minutes	ISO 1133
Tensile Strength at Yield (MPa)	64 Mpa	ISO 527
Strain at Yield	2.9%	ISO 527
E-Modulus	2580 MPa	ISO 527
Impact Strength @ 23°C	2.9KJ/m <sup>2</sup>	ISO 179
Melting Temperature	80 - 150°C	ISO 11357
Glass Transition Temperature	57°C	ISO 11357
Print Temperature	185-225C	