

LulzBot Filament Testing Report

Manufacturer: Breathe-3DP
Filament Name: PLA++
Filament Type: PLA
Tested By: Brent M
Date: 01/12/2016

Ease of use: 10/10

Appearance: 9/10

Color consistency: 10/10

Print temperature Range (C):

Melting Point (C): 180 – 220°C

Decomposition Temperature (C): 240°C

Variance in diameter: (2.82-2.85)

Minimum bend radius: NA, extremely ductile

Prints using current Lulzbot profiles/temps: Ooh yeah :) default PLA settings look great

General Notes:

- Only comes currently in 7 opaque colors, but they're nice colors
- Spool and box feel and look cheap
- Extremely ductile, feels like ABS
- Prints extremely well using default PLA settings
- Spools are labeled with an ID number
- Printed parts do much better than PLA/PHA on overhangs

Health Risks:

Eyes: No significant eye irritation or eye toxicity during normal use.

Skin: No significant skin irritation. Molten polymer may cause thermal burns.

Ingestion: May cause irritation to the throat, mouth and stomach and / or may cause nausea.

Inhalation: Inhalation of process fumes and vapors may cause irritation in the respiratory system.

Chronic: No known chronic health effects

Environmental Risks:

Ecotoxicity: No information available.

Persistence and degradability: No information available.

Bioaccumulative potential: No information available.

Disposal Options:

Dispose of this product in accordance with local, state and federal regulations.

Recommendation: This filament is LulzBot approved, we should definitely consider this company as a PLA supplier. Size and color consistency are great, and it prints like good PLA should. They sell thins on their site for \$48/kg, so it would be more of a village plastics PLA competitor than an eSun replacement.





