

LulzBot Filament Testing Report

Manufacturer: Polymakr
Filament Type: PolyFlex
Tested By: Bam
Date: 5.25.16

Ease of use: 9/10 *Requires flexystruder
Appearance: 8/10 (limited color options available)
Color consistency: 10/10
Print temperature Range (C): (210-235/0-60)
Variance in diameter: (x.xx-x.xx)
Minimum bend radius: N/A
Prints using current Lulzbot profiles/temps: Yes, ninjaflex, can at least double print speed

Manufacturers Properties:

Melting point: Not determined
Flash point: Not determined
Auto-ignition temperature: Not determined

General Notes:

- Same great packaging as the other new Polymaker filaments
- Well labeled reel with remaining filament markings
- No durometer listed, but feels somewhere between Ninjaflex and Semiflex
- Prints extremely well, able to consistently extrude 10.8mm³/s (ninjaflex tops out around 4.5mm³/s)
- Contains 90%+ TPU with the remainder being PLA
- Currently comes in black, white, orange and yellow

Health or environmental risks:

Dangerous Decomposition Products: Burning produces obnoxious and toxic fumes, carbon monoxide, carbon dioxide, hydrogen cyanide, nitrogen oxides, isocyanate.

Conditions to avoid: No data available

HMIS (U.S.A.):

Health Hazard: 0
Fire Hazard: 1
Reactivity: 0

Ecological:

Mobility: No data available
Bioaccumulation: Poorly biodegradable
Ecotoxicity effects: Data not available.

Disposal Options:

Waste Disposal Methods: In accordance with local and national regulations. Do not contaminate ponds, waterways or ditches with chemical or used container. Contact manufacturer if needed.

Recommendation: This filament requires a flexystruder, but prints extremely well. This would be a great addition to our currently small lineup of flexible materials and might make a better starter material than Ninjaflex because of it's ease of use and increased print speed.



