

Technical Data Sheet

POLYLACTIC ACID (PLA) FIBERS

General Description: A manufactured fiber in which the fiber-forming substance is composed of at least 85% by weight of lactic acid ester units derived from naturally occurring sugars.

Standard Filament Sizes: 1.3 denier per filament (dpf)

Standard Cut Lengths: 1/8", 1/4", 1/2", 3/4", and 1"
(3mm, 6mm, 12mm, 19mm, and 25mm)
Other lengths available upon request.

Shrinkage, Hot Air, 130°C: 1.1 to 6.9%

Breaking Tenacity: 3.3 to 4.0 gpd

Elongation at Break: 35 to 65%

Moisture Content: <20.0%

Moisture Regain: 0.4 to 0.6%

Specific Gravity (g/cm³): 1.25

Effect of Heat: Melts at 266 to 338°F. Low flammability and very low smoke generation.

Effects of Alkalis: Not resistant to alkalis.

Resistance to Mildew, Aging, Sunlight: Degrades quickly in high temperature, high moisture, and high microbial environments. Excellent UV resistance.

Dispersion: Easily dispersed in aqueous and non-aqueous systems.

Packaging: Fiber is packaged in corrugated boxes with polyethylene liners. Custom packaging available upon request.