



BIOpet



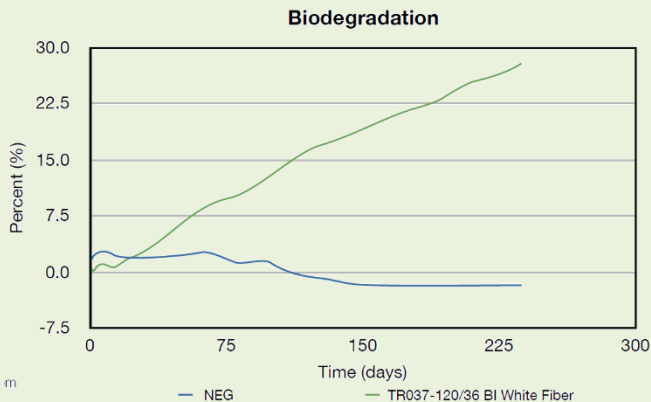
[BIODEGRADABLE POLYESTER YARN]

	Inculum	Negative	Positive	TR037-120/36 BI White Fiber
Cumulative Gas Volume (mL)	1593.3	1426.8	9401.1	8805.8
Percent CH ₄ (%)	42.3	32.4	39.3	50.7
Volume CH ₄ (mL)	674.4	462.1	3691.2	4468.6
Mass CH ₄ (g)	0.48	0.33	2.64	3.19
Percent CO ₂ (%)	40.1	40.2	43.4	37.9
Volume CO ₂ (mL)	638.3	573.7	4080.3	3337.3
Mass CO ₂ (g)	1.25	1.13	8.01	6.56
Sample Mass (g)	10	10	10	20.0
Theoretical Sample Mass (g)	0.0	8.6	4.2	12.5
Biodegraded Mass (g)	0.70	0.55	4.16	4.18
Percent Biodegraded (%)		-1.7	82.0	27.9
* Adjusted Percent Biodegraded (%)		-2.1	100.0	34.0

* The adjusted % biodegraded values are for informational purposes. It is not part of the method and will not be reported in the final report.

Tepar is producing DTY and ATY, which it sells to manufacturers who supply garment to manufacturers and brands. One of its products is **Bio PET**, a collaboration with partner company to create biodegradable yarn. The masterbatch contains enzymes which enhance biodegradability in polyester DTY.

The **product usage** is like that of virgin grade polyester filament and can be applied to all types of knitted and woven fabric. It enables degradation to occur not only on the surface, but throughout the **Bio PET** polyester. It also allows microbes to consume carbon-carbon (C-C) bonds within the polyester structure at the macromolecular level and enhances the biodegradability of the polyester filament by increasing the amount of hydrophilicity.



Available in Bio PET Virgin & Recycled

DTY, Semi Dull
Den 50F36, 50F72, 75F72, 100F144, 150F48, 150F96,
150F144 and 300F96