

Technical Data Sheet

Product Description

BG1000 is a degradable polymer that may be used for film processing. It is comprised of monomers that are aliphatic and aliphatic co-polyester polymer (PBAT). The degradation products are carbon dioxide and water which will occur by natural process in composting environment.

Features:

- Good Processing and stable bubble in existing LDPE machine (may need antiblocking additives).
- Does not produce noxious off gas
- Agency rating: US FDA 175.300 EU 10/2011 EC 1907/2006
- In-line drying is needed to control moisture which will cause processing issues
- Good Printability without pre-treatment
- Good Weldability
- Meets requirements for compostable degradable polymers: DIN EN 13492 and ASTM D6400
- Bulk storage possible in dry silo (maintaining a -30 °F dew point).

Physical Property	Nominal Value	Unit	Test Method
Density	1.22-1.25	g/cc	ASTM D792
Melt Flow Index (MFI) (190 °C/ 2.16 kg)	2.0-5.0	g/10 min	ASTM D1238
Melt Temperature	125	°C	ASTM D3418
Tensile Strength (MD)	> 250	kgf/cm ²	ASTM D638
Tensile Strength (TD)	> 200	kgf/cm ²	ASTM D638
Elongation (MD)	> 350	%	ASTM D638
Elongation (TD)	> 400	%	ASTM D638
Tear Strength (MD)	> 110	kgf/cm ²	ASTM D1004
Film Thickness	30	microns	

Process Information

BG1000 needs to be processed with low moisture content. It is recommended that the level of moisture be less than 1,000 ppm (preferable less than 700 ppm).

Blown Film Processing	
	°C
Cylinder	130 - 150
Head	150 - 160
Dies	160 - 170

AFC Ecoplastics | (<https://anbio.com.vn/>) | info@anbio.com.vn

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