

Technical Data Sheet

Product Description

BG5000M is a degradable polymer that may be used for extrusion processing in conventional equipment. Excellent product for monofilament and multifilament applications. Articles such as: fishing nets and strings, fabrics, rope, sheet, containers and paper coating are possible. It is comprised of monomers, 1,4-butanediol, adipic acid and succinic acid (PBSA). The degradation products are carbon dioxide, water and biomass which will occur by natural process in composting environment.

Features:

- Good Process ability - similar to PP.
- 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	1.25-1.27	g/cc	ASTM D792
Melt Flow Index (MFI) (190 °C/ 2.16 kg)	2~5	g/10 min	ASTM D1238
HDT	93	°C	JIS K7207
Melt Temperature	115-118	°C	ASTM D3418
Tensile Yield Strength	>370	kgf/cm ²	ASTM D638
Elongation (MD)	>100	%	ASTM D638

Process Information

BG5000M 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).

Extrusion Processing	
	°C
Cylinder	170-190
Head	190-200
Dies	200-210
Cooling Bath temp.	2~6
Stretching bath temp.	80~85

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