

Technical Data Sheet

Product Description

BG5000J is a degradable polymer that may be used for injection molding or extrusion processing in conventional equipment. 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	g/cc	ASTM D792
Melt Flow Index (MFI) (190 °C/ 2.16 kg)	15-25	g/10 min	ASTM D1238
HDT	92	°C	JIS K7207
Melt Temperature	115-118	°C	ASTM D3418
Tensile Yield Strength	>370	kgf/cm ²	ASTM D638
Elongation (MD)	>10	%	ASTM D638

Both Processes require dry resin prior to processing in -40 °F dew point air at <80 °C for 7-8 hours. Material should be dried to less than 1,000 ppm moisture (700 ppm preferred).

Injection Molding Processing	
	°C
Barrel-Rear	160
Barrel-Middle	170-180
Barrel-Front	180-195
Nozzle	200

Extrusion Processing	
	°C
Cylinder	130-150
Head	150-160
Dies	160-170

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