

Technical Data Sheet

Product Description

BG1070 is a degradable polymer that may be used for film processing. It is comprised of monomers that are aliphatic and aliphatic and aromatic producing a biodegradable polymer (PBAT). The degradation products are carbon dioxide, water and biomass 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)	> 220	kgf/cm ²	ASTM D638
Tensile Strength (TD)	> 180	kgf/cm ²	ASTM D638
Elongation (MD)	> 300	%	ASTM D638
Elongation (TD)	> 450	%	ASTM D638
Tear Strength (MD)	> 100	kgf/cm ²	ASTM D1004
Film Thickness (for above test film)	30	micons	

Process Information

BG1070 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

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