

## Technical Data Sheet

### Product Description

BG8800 is a biodegradable polymer that may be used for blown film applications – such as, rollbags, compost bags, heavy weight shopping bags, etc. BG8800 is a compound which combines both PLA and PBAT – which are two biodegradable resins. The degradation products are carbon dioxide, water and biomass which will occur by natural process in composting environment.

### Features:

- Good Processing and excellent down-gauging potential (as low as 13 microns)
- 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
- High wet-resistance when used with organic waste reduction
- 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	1.29-1.32	g/cc	ASTM D792
Melt Flow Index (MFI) (190 °C/ 2.16 kg)	2~5	g/10 min	ASTM D1238
Melt Temperature	110-130	°C	ASTM D3418
Tensile Yield Strength (MD)	>350	kgf/cm <sup>2</sup>	ASTM D638
Tensile Yield Strength (TD)	>320	kgf/cm <sup>2</sup>	ASTM D638
Elongation (MD)	>450	%	ASTM D638
Elongation (TD)	>500	%	ASTM D638
Tear Strength	>110	kgf/cm <sup>2</sup>	ASTM D1004
Thickness (film tested)	20	microns	

### Blown Film Processing

BG8800 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 1	140~145
Cylinder 2	140~145
Mesh Screen	150~160
Dies	150~160

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