Anbio BG4400

Polylactic Acid **AFC** Ecoplastics



Technical Data

Product Description

BG4400 is a biodegradable polymer that may use for injection molding producing heat resistant articles, such as cutlery, trays, cups, baby toys etc. After crystallization (X'talization), BG4400 will have excellent heat resistance properties. BG4400 is made primarily with polylactic acid polymer (PLA). It will degrade in compost environment producing: carbon dioxide, water and biomass.

Features:

- Good Processing when dried properly (< 1,000 ppm moisture)
- · 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 0 F dew point).

General			
Material Status	Commercial: Active		
Literature ¹	Technical Datasheet (Engl	ish)	
Availability	Asia Pacific	North America	
Features	BiodegradableGas-fading Resistant	 Good Printability Good Processability	High Heat ResistanceWeldable
Uses	CupsHousehold Goods	ToysTrays	
Agency Ratings	ASTM D6400DIN EN 13492	EC 1907/2006 (REACH)EU 10/2011	• FDA 21 CFR 175.300
Forms	• Pellets		
Processing Method	Injection Molding		
Physical		Nominal Value Unit	Test Method
Density / Specific Gravity		1.38 g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°0	C/2.16 kg)	5.0 to 12 g/10 min	ASTM D1238
Mechanical		Nominal Value Unit	Test Method
Tensile Strength		29.4 to 39.2 MPa	ASTM D638
Tensile Elongation (Break)		< 20 %	ASTM D638
Thermal		Nominal Value Unit	Test Method
Heat Deflection Temperature		100 to 120 °C	ASTM D638
Injection		Nominal Value Unit	
Rear Temperature		165°C	
Middle Temperature		170 to 180 °C	
Front Temperature		180 to 195 °C	
Nozzle Temperature		205°C	
Mold Temperature		85 to 100 °C	

Notes

² Typical properties: these are not to be construed as specifications.



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¹ These links provide you with access to supplier literature. We work hard to keep them up to date; however you may find the most current literature from the supplier.