

# Biogenpol-1000(PBAT)

## ■ What is Biogenpol-1000 (定义)

Biogenpol-1000 is our compostable (most likely biodegradable) statistical aliphatic-aromatic co-polyester, derived from the monomers, 1,4-butanediol, adipic acid and dimethyl terephthalate.

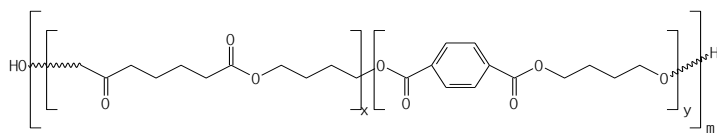
Biogenpol-1000是由丁二醇，己二酸，对苯二甲酸二甲酯的单体合成可进行堆肥化的芳香族/脂肪族共聚体。

## ■ Application for Biogenpol-1000 (应用)

Biogenpol-1000 is designed for flexible packaging films to be extruded through blown or cast processes.

Main application for Biogenpol-1000 are “Shopping bags”, “Waste bags”, “Compost bags”, “Packaging films”, “Agricultural films” etc

Biogenpol-1000是利用吹塑薄膜和铸型薄膜的加工方式，制成具有堆肥化性能的购物袋，垃圾袋，包装用薄膜以及农业用覆盖地膜等产品。



[Molecular structure of BG-1000]

## ■ Basic Properties of Biogenpol-1000 (特性)

Properties (特性)	Unit (单位)	Value (值)	Test Method (实验方式)
Density (密度)	g/ml	1.25	ASTM D792
M.F.I (190°C, 2160g) (熔流指数)	g/10min	2±1	ISO 1133
Melting Point (熔点)	°C	120~125	ASTM D2117
Acid Value (酸价)	mg-KOH/g	< 1.5	ASTM D974
Glass Transition temp. (玻璃转移温度)	°C	-28	ASTM D2117
Tensile Strength (50µm film) (抗张强度)	kg/cm <sup>2</sup>	Min. 330	ASTM D638
Elongation (50µm film) (延伸率)	%	Min. 500	ASTM D638
Crystallization Temp. (结晶化温度)	°C	84	ASTM D2117
Shore D Hardness (ShoreD硬度)		30~40	ISO 868