



Bio-Star ecoStar C1200

Biodegradable Copolyester for Compostable Film
Film, extrusion, injection molding

Melt Flow	ASTM Test	Typical Value
Flow, gm/10 min., 190/2.160	D-1238	2.5 – 5.0
Specific Gravity	D-792	1.26
Impact Properties	ASTM Test	Typical Value
Failure energy – Dyna	DIN 53373	450 ft.lb/in
Tensile Properties	ASTM Test	Typical Value
Stress MD Break, psi	D-882	5200
Stress TD Break, psi	D-882	6525
Elongation, %	D-882	
MD Break		550%
TD Break		700%
Transmission Rates	ASTM Test	Typical Value
Oxygen Transmission	D-3985	77 cm ³ /100 in ²
MVTR	F-1249	8.75 g/100 in ²
Thermal Properties	ASTM Test	Typical Value
Melting Point, F	DSC	230 - 248
Vicat Softening, F	D-1525	196
Physical Properties	ASTM Test	Typical Value
Shore D Hardness	D-2240	32 D
Transmittance (2 mil)	D-1003	82%

Bio-Star ecoStar C1200 will biodegrade to the basic monomers 1,4-butanediol, adipic acid and terephthalic acid and eventually to carbon dioxide, water and biomass when metabolized in the soil or compost under standard conditions. ecoStar C1200 has properties similar to LDPE because of its high molecular weight and long chain branched molecular structure.

Please contact us with any additional questions you may have regarding this material. (940) 226-3131

Other Information

Bio-Star ecoStar C1200 is one of the few biodegradable plastics, which complies in its composition with the European and American food stuff legislation for food contact: EU Directive 2002/72/EC (as amended) and US food contact notification FCN 907.