

Cardia Compostable™ B-MT01

Thermoplastic Starch + Copolyester

Cardia Bioplastics™

Message:

Cardia Compostable B-MT01 is a fully biodegradable and compostable resin based on a blend of thermoplastic starch (TPS), biodegradable polyesters and natural plasticizers. This grade of resin is compatibilised to offer a high level of mechanical strength, impact resistance and toughness. The resin is based on corn starch which is a renewable material.

A fully biodegradable and compostable resin

Designed to be used for injection moulding and profile/sheet extrusion

Cardia Compostable B-MT01 resin is fully biodegradable during composting in professionally managed composting facilities.

Complies with International Standard ISO16929, ISO 14855

Cardia Compostable B-MT01 complies with

European Standard EN13432,

USA Standard ASTM 6400,

Australian Standard AS 4736 and

Japanese "GreenPla" Standard

Chinese Environmental Labelling.

Application Examples

Biodegradable injection moulded products such as cutlery, toothbrushes, combs, shavers, golf-tees, plant markers, etc.

Extruded tubes and rods

Biodegradable stakes and pegs

Biodegradable tags

Extruded pipes

Injection moulded containers, caps and closures

Compostable rigid products if wall thickness is kept below 1 mm.

General Information	
Features	Biodegradable
	Compostable
	Good Toughness
	High Impact Resistance
	High Strength
	Plasticized
	Renewable Resource Content
Uses	Caps
	Closures
	Containers
	Disposable Tableware
	Personal Care
	Piping
	Profiles
	Rods
	Sheet
	Table Products
	Toothbrush Handles
	Tubing

Agency Ratings	ASTM D 6400
	EN 13432
	EU 2002/72/EC
	ISO 14855
Processing Method	Injection Molding
	Pipe Extrusion
	Profile Extrusion
	Sheet Extrusion

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.50	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	5.0	g/10 min	ASTM D1238
Moisture Content	< 0.60	%	Internal Method
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1320	MPa	ASTM D638
Tensile Strength (Break, 0.0300 mm)	30.0	MPa	ASTM D638
Tensile Elongation (Break)	1.6	%	ASTM D638
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	38	J/m	ASTM D256

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