

Cardia Compostable™ B-M

Thermoplastic Starch + Copolyester

Cardia Bioplastics™

Message:

Description

Cardia Compostable B-M is a 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 biodegradable and compostable resin

Greater than 98% biodegradability when tested to ISO14855

Designed to be used for injection moulding and profile extrusion

Specifications and Compliances

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

Complies with International Standard ISO16929, ISO 14855

Cardia Compostable B-M 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 Renewable Resource Content
Uses	Caps Closures Containers Personal Care Piping Profiles Rods Table Products Toothbrush Handles Tubing

Agency Ratings	ASTM D 6400 EN 13432 EU 2002/72/EC ISO 14855
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Processing Method	Extrusion Injection Molding Profile Extrusion
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Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.20	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	9.0	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)	19.8	MPa	ASTM D638
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	23.5	J/m	DIN 179-1

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