Cardia Biohybrid™ H-M03

Thermoplastic Starch + PP

Cardia Bioplastics™

Message:

Cardia Biohybrid™ H-M03 is based on a blend of thermoplastic starch (TPS) and polyolefin's. This grade of resin is compatibilised to offer a high level of mechanical strength, good impact resistance and toughness. The resin is based on corn starch which is a renewable material.
A Biohybrid™ resin offering a significant reduction in carbon footprint (compared to polyolefins PE/PP)
An effective contribution to sustainability where biodegradability/compostability is not required
Designed for thin and thick gauge rigid moulding and extrusion applications.
Cardia Biohybrid™ H-M03 is formulated with 50% of renewable thermoplastic starch polymer. This resin is suitable for a wide range of products manufactured by injection moulding or extrusion processes. Due to its content of polypropylene the material is not a fully biodegradable polymer and it is not intended for ultimate disposal in commercial composting facilities. If biodegradability or compostability is required, use of Cardia Compostable B-M or TBM resin is recommended.
Application Examples
Injection moulded products such as cutlery, toothbrushes, combs, shavers, golf-tees, etc.
Stakes and pegs
Horticultural products such as flower pots and stakes
Injection moulded containers, caps and closures
Disposable plates and produce trays

General Information	
Features	Food Contact Acceptable
	Good Impact Resistance
	Good Toughness
	High Strength
	Renewable Resource Content
Uses	Caps
	Closures
	Containers
	Disposable Tableware
	Lawn and Garden Equipment
	Pacifiers
	Personal Care
	Support Trays
	Table Products
	Toothbrush Handles
Agency Ratings	EU 2002/72/EC
Processing Method	Extrusion
	Injection Molding

Physical	Nominal Value	Unit	Test Method
Density	1.17	g/cm^3	ASTM D4883

Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	3.4	g/10 min	ASTM D1238
Molding Shrinkage - Flow	1.0	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break)	> 15.0	MPa	ASTM D638
Tensile Elongation (Break)	> 10	%	ASTM D638
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	9.7	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Peak Melting Temperature	150 to 165	°C	ASTM D3418
Additional Information	Nominal Value	Unit	
Biobased Content - Starch	50	%	

Recommended distributors for this material

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