

# Cardia Biohybrid™ H-FM

Thermoplastic Starch + PP

Cardia Bioplastics™

Message:

Cardia Biohybrid™ H-FM 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 elongation properties and toughness. The resin is based on corn starch which is a renewable material.

A Biohybrid resin for foaming applications where biodegradability is not required.

For use in applications where the use of renewable resources are desired.

Can be used with chemical and physical blowing agents

Cardia Biohybrid™ H-FM is formulated with 50% of renewable thermoplastic starch polymer. This resin is suitable for a range of products manufactured by foam extrusion. Due to its high content of polyolefins the material is not a fully biodegradable polymer and is not intended for ultimate disposal in commercial composting facilities.

Applications

Extrusion foaming of packaging shapes

Extrusion foaming of sheet for packaging and cushioning

Extruded boards for packaging and insulation applications

General Information			
Features	Foamable		
	Food Contact Acceptable		
	Good Toughness		
	High Elongation		
	High Strength		
	Renewable Resource Content		
Uses	Foam		
	Insulation		
	Packaging		
	Sheet		
Agency Ratings	EU 2002/72/EC		
Processing Method	Foam Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	1.10	g/cm <sup>3</sup>	ASTM D4883
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	3.6	g/10 min	ASTM D1238
Moisture Content	< 0.60	%	
Biobased Content - Starch	50	%	
Thermal	Nominal Value	Unit	Test Method
Peak Melting Temperature	165	°C	ASTM D3418

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