

Cardia Biohybrid™ H-FM

Foam - Hybrid Resin

High Renewable Resource Content

Description

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

Specifications and Compliances

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

Physical Properties of Cardia Biohybrid™ H-FM Resin

<i>Properties</i>	<i>Test Method</i>	<i>Value</i>	<i>Unit</i>
Melt flow index	ASTM D1238	3.6	g /10 min (2.16 kg/190°C/374°F)
Density	ASTM D792	1.1	g/cm ³
Melting Temperature Range	ASTM D3418	165	°C
Moisture Content	Internal	<0.6	%

Transport, Storage and Handling

Cardia Bioplastics Materials should be transported, stored and handled in cool and dry environments without exposure to direct sunlight. More information can be retrieved from the Processing Guidelines available through your Cardia Bioplastics™ sales representative.

Safety

A Material Safety Data Sheet (MSDS) is available on request. Please contact your Cardia Bioplastics™ sales representative.

Processing Conditions

Cardia Biohybrid™ H-FM materials can be readily processed on standard plastic process equipment.

Food Contact

In certain applications Cardia Biohybrid™ H-FM can be suitable for direct contact with foodstuffs as per Directive 2002/72/EC (previously 90/128/EWG and amendments). More information can be found in the Info "FOOD CONTACT Compliance of Cardia Biohybrid™ Resins" available on our Website. In order to discuss a specific food contact application please contact Cardia Bioplastics™ Technical Service.

Disclaimer

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