Cardia Biohybrid™ H-F

Thermoplastic Starch + PE

Cardia Bioplastics™

Message:

Cardia Biohybrid ™ H-F is a based on a blend of thermoplastic starch (TPS) with Polyethylene. This grade of resin is compatibilised to offer a high level of mechanical strength, elongation properties and toughness. The resin is based on corn starch which is a renewable material.
A Biohybrid resin for film applications offering a significant reduction in carbon footprint (compared to PE)
An effective contribution to sustainability where biodegradability/compostability is not required.
Designed for thin and thick gauge film applications.
Cardia Biohybrid™ H-F is formulated with 50% of annually renewable thermoplastic starch polymer. This resin is suitable for a range of products manufactured by blown film extrusion and extrusion blow molding as well as injection molding processes. Due its high content of polyolefins the material is not a fully biodegradable polymer and is not intended for ultimate disposal in commercial composting facilities. For applications in which compostability is required we recommend the usage of Cardia Compostable B-F resin.
Application Examples
Shopping bags/Check-out bags
Garbage bags
Leaf litter bags
Bin liners
Overwrap Packaging

General Information	
Features	Food Contact Acceptable
	Good Toughness
	High Elongation
	High Strength
	Renewable Resource Content
Uses	Bags
	Blending
	Film
	Heavy-duty Bags
	Liners
	Packaging
Agency Ratings	EU 2002/72/EC
Processing Method	Blown Film
	Extrusion Blow Molding
	Injection Molding

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.10	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	1.0	g/10 min	ASTM D1238
Moisture Content	< 0.60	%	Internal Method
Biobased Content - Starch	50	%	

Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D883
Yield	> 13.0	MPa	
Break	> 13.0	MPa	
Tensile Elongation (Break)	350	%	ASTM D883
Thermal	**Nominal Value**	**Unit**	**Test Method**
Peak Melting Temperature	90.0 to 130	°C	ASTM D3418

Recommended distributors for this material

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