Cardia Biohybrid™ H-BM

Thermoplastic Starch + PP

Cardia Bioplastics™

Message:

Cardia Biohybrid™ H-BM 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-BM 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
Blow molding of bottles, containers and jars
Blow molding of multi-layer containers and bottles

General Information	
Features	Food Contact Acceptable Good Impact Resistance Good Toughness High Strength Renewable Resource Content
Uses	Bottles Containers
Agency Ratings	EU 2002/72/EC
Processing Method	Blow Molding Extrusion Injection Molding

Physical	Nominal Value	Unit	Test Method
Density	1.10	g/cm³	ASTM D4883
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	2.5	g/10 min	ASTM D1238
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength (Break)	> 15.0	MPa	ASTM D638
Tensile Elongation (Break)	> 16	%	ASTM D638
Thermal	**Nominal Value**	**Unit**	**Test Method**
Peak Melting Temperature	101 to 106	°C	ASTM D3418
Additional Information	**Nominal Value**	**Unit**	
Biobased Content - Starch	50	%	

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China