Cereplast Compostables® 7003

Polylactic Acid

Cereplast, Inc.

Message:

Cereplast Compostables® resins are renewable, ecologically sound substitutes for petroleum-based plastic product replacing nearly 100% of the petroleum-based additives used in traditional plastics. Cereplast Compostables® resins are using polymer and additives derived from starch and other renewable resources chemistry. These components are carefully blended together on state-of-the-art compounding equipments.
All Cereplast Compostables® resins, including Compostable 7003, are certified as biodegradable and compostable in the United States and Europe, meeting BPI (Biodegradable Products Institute www.bpiworld.com) standards for compostability (ASTM6400D99, ASTM6868) and European Bioplastics Standards (EN13432).
Compostable 7003 has been designed to have an excellent balance of strength, toughness and processability. Compostable 7003 can be processed on existing sheet extrusion machines. Please see our processing guide for processing and material drying guidelines. This can be found at www.cereplast.com.
Compostable 7003 is recommended for extrusion application like straws, profiles, boards, sheets, pipes, conduits, and more…

General Information	
Features	Comstable Updatable resources Workability, good Good strength Good toughness Biodegradable
Uses	Catheter Piping system Sheet Profile Beverage straw
Agency Ratings	ASTM D 6400 ASTM D 6868 EN 13432
Processing Method	Sheet extrusion molding Profile extrusion molding

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.36	g/cm³	ASTM D792A
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	4.0	g/10 min	ASTM D1238
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	3450	MPa	ASTM D638
Tensile Strength (Break)	55.2	MPa	ASTM D638

Tensile Elongation (Break)	7.0	%	ASTM D638
Flexural Modulus	3100	MPa	ASTM D790
Flexural Strength	89.6	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (23°C)	33	J/m	ASTM D256
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (0.45 MPa, Unannealed)	50.0	°C	ASTM D648
Extrusion	**Nominal Value**	**Unit**	
Drying Temperature	71.1 - 82.2	°C	
Drying Time	4.0	hr	
Cylinder Zone 1 Temp.	174 - 185	°C	
Cylinder Zone 2 Temp.	177 - 185	°C	
Cylinder Zone 3 Temp.	177 - 196	°C	
Adapter Temperature	177 - 196	°C	
Melt Temperature	199	°C	
Die Temperature	177 - 196	°C	

Extrusion instructions

Screw Speed: 20 to100 rpm

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