Cereplast Compostables® 6000

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 6000, 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 6000 has been designed to have an excellent balance of strength, toughness and processability. Compostable 6000 can be processed on existing sheet extrusion and thermoforming machines. Please see our processing guide for processing and material drying guidelines. This can be found at www.cereplast.com.
Compostable 6000 is recommended for extrusion and thermoforming application like cups, plates, bowls, trays, clamshells, containers, packaging, sheets, displays and more…

General Information	
Features	Comstable
	Updatable resources
	Workability, good
	Good strength
	Good toughness
	Biodegradable
Uses	Decorative Displays
	Packaging
	Sheet
	Thermoformed container
	Container
	Bracket tray
	Table products
Agency Ratings	ASTM D 6400
	ASTM D 6868
	EN 13432
Processing Method	Sheet extrusion molding
	Thermoforming

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.43	g/cm³	ASTM D792A
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	3.0	g/10 min	ASTM D1238
Mechanical	**Nominal Value**	**Unit**	**Test Method**

Tensile Modulus	4480	MPa	ASTM D638
Tensile Strength (Break)	49.6	MPa	ASTM D638
Tensile Elongation (Break)	9.0	%	ASTM D638
Flexural Modulus	3790	MPa	ASTM D790
Flexural Strength	85.5	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)	51.1	°C	ASTM D648
Extrusion	Nominal Value	Unit	
Drying Temperature	71.1 - 82.2	°C	
Drying Time	2.0 - 4.0	hr	
Cylinder Zone 1 Temp.	154 - 174	°C	
Cylinder Zone 2 Temp.	163 - 171	°C	
Cylinder Zone 3 Temp.	166 - 174	°C	
Adapter Temperature	166 - 174	°C	
Melt Temperature	199	°C	
Die Temperature	166 - 174	°C	

Extrusion instructions

Screw Speed: 20 to100 rpmDrying Temperature (regrind): 100 to120°F

Recommended distributors for this material

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