

Cereplast Compostables® 1000

Polylactic Acid

Trellis Bioplastics

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 1000, 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 1000 has been designed to have an excellent balance of toughness, rigidity and processability. Compostable 1000 can be processed on existing conventional electric and hydraulic reciprocating screw injection molding machines. Please see our processing guide for processing and material drying guidelines. This can be found at www.cereplast.com.

General Information			
Features	Good Rigidity		
	Environmental protection		
	Comstable		
	Updatable resources		
	Workability, good		
	Good toughness		
	Biodegradable		
Agency Ratings	ASTM D 6400		
	ASTM D 6868		
	EN 13432		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.31	g/cm ³	ASTM D792A
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	5.0	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break)	38.4	MPa	ASTM D638
Tensile Elongation (Break)	10	%	ASTM D638
Flexural Modulus	3260	MPa	ASTM D790
Flexural Strength	61.7	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	40	J/m	ASTM D256
Dart Drop Impact	1.13	J	ASTM D5420
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	44.0	°C	ASTM D648

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