

Cereplast Compostables® 2001

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 2001, 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 2001 has been designed to have an excellent balance of toughness, rigidity and processability.

Compostable 2001 can be processed on existing blow molding machines. Please see our processing guide for processing and material drying guidelines.

This can be found at www.cereplast.com.

Compostable 2001 have been specially designed for bottles, containers and similar type applications.

General Information			
Features	Rigidity, high		
	Comstable		
	Updatable resources		
	Workability, good		
	Good toughness		
	Biodegradable		
Uses	Bottle		
	Container		
Agency Ratings	ASTM D 6400		
	ASTM D 6868		
	EN 13432		
Processing Method	Extrusion blow molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.25	g/cm ³	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	3240	MPa	ASTM D638
Tensile Strength (Break)	55.4	MPa	ASTM D638
Tensile Elongation (Break)	5.0	%	ASTM D638
Flexural Modulus	2830	MPa	ASTM D790
Flexural Strength	92.4	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	25	J/m	ASTM D256A
Thermal	Nominal Value	Unit	Test Method

Deflection Temperature Under Load (0.45 MPa, Unannealed)	47.8	°C	ASTM D648
Extrusion	Nominal Value	Unit	
Drying Temperature	71.1 - 82.2	°C	
Drying Time	4.0	hr	
Cylinder Zone 1 Temp.	154 - 174	°C	
Cylinder Zone 2 Temp.	163 - 171	°C	
Cylinder Zone 3 Temp.	166 - 182	°C	
Adapter Temperature	171 - 193	°C	
Melt Temperature	199	°C	
Die Temperature	171 - 193	°C	
Extrusion instructions			

Mold Temperature: 50 to 80°F Screw Speed: 20 to 100 rpm

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