Cereplast Compostables® 5001

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 5001, 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 5001 has been designed to have an excellent balance of strength, toughness and processability. Compostable 5001 can be processed on existing extrusion machines. Please see our processing guide for processing and material drying guidelines. This can be found at www.cereplast.com.
Compostable 5001 is recommended for foam extrusion of sheets which can be thermoformed in meat trays, plates, egg cartons, clamshells and more⋯

General Information	
Features	Comstable Foamable property Updatable resources Workability, good Good strength Good toughness Biodegradable
Uses	Foam Container Disposable tableware Bracket tray
Agency Ratings	ASTM D 6400 ASTM D 6868 EN 13432
Processing Method	Foam extrusion molding Thermoforming

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.25	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	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 D256
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	
Cylinder Zone 1 Temp.	171	°C	
Cylinder Zone 2 Temp.	182	°C	
Cylinder Zone 3 Temp.	185	°C	
Cylinder Zone 4 Temp.	188	°C	
Cylinder Zone 5 Temp.	188	°C	
Adapter Temperature	188	°C	
Melt Temperature	188	°C	

Extrusion instructions

Speed: (RPM) 57.2Head Pressure: (PSI) 1090Amperage 84 (100 max)Feeder Talc: (TPM 1823) 1 lbs/hourGas Setting: (Isobutane) 8 lbs/hourLine Rate: 220 pounds/hour

Recommended distributors for this material

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