Cereplast Compostables® 1001

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 1001, 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 1001 has been designed to have an excellent balance of toughness, rigidity and processability. Compostable 1001 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	Rigidity, high 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	1.28	g/cm³	ASTM D792A
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	8.0	g/10 min	ASTM D1238
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	3590	MPa	ASTM D638
Tensile Strength (Break)	49.6	MPa	ASTM D638
Tensile Elongation (Break)	5.1	%	ASTM D638
Flexural Modulus	3360	MPa	ASTM D790
Flexural Strength	80.0	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (23°C)	33	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)	44.4	°C	ASTM D648B

Injection	Nominal Value	Unit
Drying Temperature	71.1 - 82.2	°C
Drying Time	2.0 - 4.0	hr
Rear Temperature	163 - 177	°C
Middle Temperature	177 - 191	°C
Front Temperature	177 - 204	°C
Nozzle Temperature	177 - 204	°C
Processing (Melt) Temp	174 - 204	°C
Mold Temperature	10.0 - 26.7	°C
Screw Speed	50 - 100	rpm

Injection instructions

Material Drying Temp (regrind): 100 to 120°F (4 hrs.)

Recommended distributors for this material

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WECHAT