Cereplast Compostables® 1013

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 1013, 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 1013 has been designed to have an excellent balance of low stiffness, toughness, and processability. Compostable 1013 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	Rigid, good Comstable Updatable resources Workability, good Low temperature impact resistance 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	1.29	g/cm³	ASTM D792A
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	6.0	g/10 min	ASTM D1238
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	972	MPa	ASTM D638
Tensile Strength (Break)	21.0	MPa	ASTM D638
Tensile Elongation (Break)	350	%	ASTM D638
Flexural Modulus	703	MPa	ASTM D790
Flexural Strength	18.3	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact			ASTM D256
-40°C	34	J/m	ASTM D256
23°C	420	J/m	ASTM D256
Dart Drop Impact	18.1	J	ASTM D5420

Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	-35.0	°C	ASTM D746

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 to120°F (4 hrs.)

Recommended distributors for this material

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WECHAT