

Cereplast Compostables® 5000D

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 5000D, 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 5000D has been designed to have an excellent balance of toughness, rigidity and processability. Compostable 5000D 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.

Sustainable 5000D is recommended for foam extrusion of sheets which can be thermoformed in meat trays, plates, egg cartons, clamshells and more...

General Information			
Features	Good Rigidity		
	Environmental protection		
	Comstable		
	Updatable resources		
	Workability, good		
	Good toughness		
	Biodegradable		
Uses	Thermoforming Applications		
	Sheet		
Agency Ratings	ASTM D 6400		
	ASTM D 6868		
	EN 13432		
Processing Method	Foam extrusion molding		
	Thermoforming		
	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.37	g/cm³	ASTM D792A
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	4.5	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	3480	MPa	ASTM D638
Tensile Strength (Break)	68.0	MPa	ASTM D638
Tensile Elongation (Break)	4.0	%	ASTM D638

Flexural Modulus	3030	MPa	ASTM D790
Flexural Strength	100	MPa	ASTM D790

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