Cereplast Compostables® 4001

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 4001, 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 4001 has been designed to have an excellent balance of strength, toughness and processability. Compostable 4001 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 4001 is recommended for extrusion coating application like cups, plates, containers, boxes, cardboard and more…

General Information			
Features	Environmental protection Comstable Updatable resources Workability, good Good strength Good toughness Biodegradable		
Uses	Coating application		
Agency Ratings	ASTM D 6400 ASTM D 6868 EN 13432		
Processing Method	Extrusion coating		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.25	g/cm³	ASTM D792A
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	2.0	g/10 min	ASTM D1238
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	2860	MPa	ASTM D638
Tensile Strength (Break)	57.2	MPa	ASTM D638
Tensile Elongation (Break)	11	%	ASTM D638
Flexural Modulus	2460	MPa	ASTM D790
Flexural Strength	82.7	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (23°C)	27	J/m	ASTM D256
Dart Drop Impact	3.40	J	ASTM D5420
Thermal	**Nominal Value**	**Unit**	**Test Method**

Deflection Temperature Under Load (0.45 MPa, Unannealed)	48.2	°C	ASTM D648

Recommended distributors for this material

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