Sustainable Biopolymers for Paper Coating

Compound: PHACT™ CA8570P

Target Applications

Markets
- Food packaging
- Flexible Packaging

End Products
- Paper cups for beverage
- Multilayer paper cups for food
- Flexible packaging: 1st & 2nd PKG

Bring a New Wave PHACT

COMPOUND

PHACT CA8570P is a compounded resin based on PLA and amorphous PHA (aPHA) known as PHACT A1000P. PHACT CA8570 has 100% bio-content and is an environmentally friendly semi-crystalline biopolymer compound that improves functional performance and has excellent biodegradability in home and soil compost conditions. It allows the production of compostable paper products depending on the grade of paper used. PHACT CA8570P has good temperature stability from cold storage to microwave systems and offers very high production efficiency.

PHACT CA8570P Features *Currently available only for APAC Region

- 100% bio content
- Enables home compostability
- Good temperature stability (-15 ° C to 100 ° C)
- Good water resistance
- FDA-approved for food contact(1)

1) US FDA FCN2281

- Relative to PLA:
  - Increased flexibility and impact strength
  - Increased production efficiency
    ; works at lower temperatures/fast line speeds

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Mechanical Properties

Compound Grade for Paper Coating			
Properties	Units	ASTM	CA8570P
Forms	-		Pellet
Specific Gravity	-	D792	1.22
Seal Strength	kgf/15mm	F88	≥ 0.8
Melting Point(1)	℃	D3418	168
Glass Transition Temperature(1)	° C	D3418	-15, 57
Degradation Temperature(2)	℃	E2550	292
Melt Flow Rate (190 ° C, 2.16 kg)	%	D1238	12 ~ 14
Water Resistance (Cobb value)	g/m^2	TAPPI T441	〈 1

1) Differential Scanning Calorimeter (DSC), the peak of endotherm. Heating rate 10 ℃/min.

2) Thermogravimetric Analysis (TGA), heating rate 20 ℃/min.

For further technical information, please access the TDS documents. [DOWNLOAD]

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For additional information or specific recommendations for your intended applications, please contact us.

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