Sustainable Biopolymers for Fiber (Filament and Non-woven)

Compound: PHACT™ CA8370P and CA8770P

Target Applications

Markets
- Hygiene / Filtration
- Textiles / Cosmetics
- Marine Applications

End Products
- Diapers / Masks / Wet wipes
- Teabags / Coffee filters
- Apparel / Floor Pads / Mask pack
- Brushes / Fishnets

Bring a New Wave PHACT

COMPOUND

PHACT CA8370P and CA8770P are compounded resins using polylactic acid (PLA) and amorphous PHA (aPHA) known as PHACT A1000P. The grades can be used for a broad range of fiber and non-woven applications. Both grades are suitable for conventional fiber spinning and drawing processes. Fibers made with PHACT CA8370P or CA8770P have excellent texture and softness compared to PLA alone. PHACT CA8370P and CA8770P are for non-woven (spun bond, staple fiber). Converters can produce fibers at lower temperatures than PLA, enhancing processability and reducing costs. Final products made from PHACT CA8370P and CA8770P have better biodegradability relative to PLA fibers.

PHACT CA8370P & CA8770P Features *Currently available only for APAC Region

- 100% bio content
- Industrial compostable
- Enhanced spinning productivity
- FDA-approved for food contact[1)]

1) US FDA FCN2281

- Relative to PLA:
  - Increased flexibility and softness
  - Better dyeability (color expression)

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Mechanical Properties

Compound Grades for Fiber				
Properties	Units	ASTM	CA8370P (Filament)	CA8770P (Non-woven)
Forms	-		Pellet	Pellet
Specific Gravity	-	D792	1.23	1.23
Melt Flow Rate (190 ° C, 2.16 kg)	g/10 min	D1238	8	8
Glass Transition Temperature[1)]	° C	D3418	-15	-15
Crystalline Melt Temperature[1)]	° C	D3418	171	171

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