

# Sustainable Biopolymers for Extrusion

Compound: PHACT™ CA8470P-S2

## Target Applications

 <p><b>Markets</b></p> <ul style="list-style-type: none"> <li>• Food Serviceware</li> </ul>	 <p><b>End Products</b></p> <ul style="list-style-type: none"> <li>• Straw</li> </ul>	<p>Bring a New Wave</p> <h1>PHACT</h1>
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## COMPOUND

PHACT CA8470P-S2 is an environmentally friendly semi-crystalline biopolymer compound that improves functional performance and enables faster composting relative to polylactic acid (PLA). This grade is a compounded resin based on PLA and amorphous PHA (aPHA) known as PHACT A1000P. The addition of aPHA to PLA increases flexibility and impact strength and is ideal for straw applications.

### PHACT CA8470P-S2 Features \*Currently available only for APAC Region

- 100% bio content
- Industrial compostable
- FDA-approved for food contact<sup>(1)</sup>
- Enhanced properties relative to PLA straws:
  - Increased processability into diverse shapes and functions ; shape like T&P straws
  - Increased flexibility and resilience

1) US FDA FCN2281



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# Sustainable Biopolymers for Extrusion

Compound: PHACT™ CA8470P-S2

## Mechanical Properties

Compound Grade for Extrusion				
Properties		Units	ASTM	CA8470P-S2
Forms		-	-	Pellet
Specific Gravity		-	D792	1.23
Tensile Strength at Break <sup>(1)</sup>	MD	MPa	D882	44
	TD			29
Elongation at Break <sup>(1)</sup>	MD	%		340
	TD			350
Melting Point <sup>(2)</sup>		°C	D3418	149
Glass Transition Temperature <sup>(2)</sup>		°C	D3418	-15, 52
Melt Flow Rate (190 °C, 2.16 kg)		%	D1238	6

1) Film specimens conform to ASTM D882. Crosshead speed 200 mm/min for mechanical properties.

2) Differential Scanning Calorimeter (DSC), the peak of endotherm. Heating rate 10 °C/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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