



# Discover the **Future of Sustainable Parts with Bioplastics**

Introducing our new range of flexible Bio-Based PVC Caps, Sleeves and Grips designed for the demanding requirements of industries such as Automotive, Aerospace, Pharmaceutical, Hydraulics and many more. Our Bio-Based Parts are used worldwide as finished products, packaging aids or as in-process masking and protection.

*A Bio-Based material is derived from renewable biological sources, such as plants or other organic matter, rather than petroleum-based resources.*

## Why Choose Sinclair & Rush Bioplastic Parts?

1.

### Superior Renewable Carbon Content

The bioplastic materials we use have a **renewable carbon content over 17 times greater** than traditional fossil-fuel-based alternatives, significantly reducing dependence on non-renewable resources.

2.

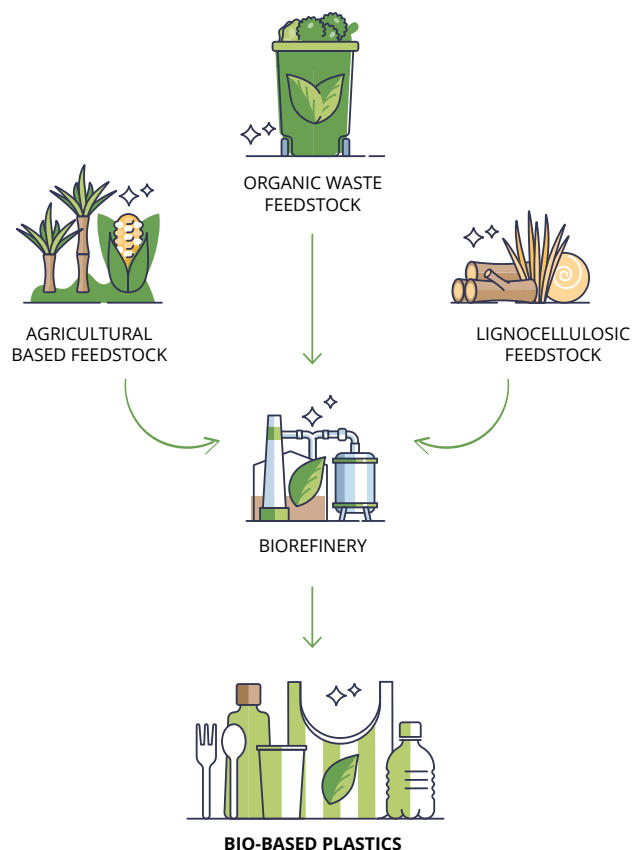
### More Than 35% Bio-Based Materials

Over **35% of the raw materials** in our bioplastics are Bio-Based, contributing to a more sustainable and eco-friendly product offering.

3.

### Negative Carbon Dioxide Equivalent Materials

Our bioplastic materials incorporate components with a **negative carbon dioxide equivalent**, actively improving the **Global Warming Potential** compared to conventional formulations. This means lower greenhouse gas emissions and a reduced carbon footprint for your products.





## Technical Data Sheet & MSDS Information

### BIO-BASED Plastisol PVC 651B-580-BLACK

Liquid Properties	METHOD	Typical Value
WT/ GALLON (lbs/ gal)	Gardner Cup	9.90 lb/gal
VISCOSITY @ 78F +/- 2F	Brookfield	
20 RPM	#4 spindle	1,000 - 3,000 cps
Fused Physical Properties		
DUROMETER SHORE A	ASTM D2240	60-70
COLOUR	Visual Inspection	Black
MAX OPERATING TEMPERATURE		130°C*
ELONGATION	Internal	300%**
TENSILE	Internal	15 Mpa**

#### Typical applications:

- Protective Coatings/ Caps/ Plugs
- Sealants
- Moldable devices

#### Product benefits:

- Enhanced appearance
- Insulation
- Resistance to certain chemicals
- Bio-Based PVC from Sinclair & Rush is inherently free of Phthalates.

#### GREEN Benefits:

- Use of Renewable Carbon Content over 17 times greater than conventional formulations that use fossil fuel feedstocks.
- Uses more than 35% Bio-Based raw materials.
- Incorporates the use of raw materials with a negative Carbon Dioxide equivalent. Improving the Global Warming Potential compared to conventional formulations.

\* Max Operating Temperatures: Fully cured parts were found to have no visible cracking, melting or sagging when exposed to constant temperatures of 130°C for periods of 30 minutes. Total weight loss was less than 0.2 % when measured after such exposure.

\*\* Internal testing conducted ASTM D635 methods.

Product should be stored in a cool and dry place free of moisture. Ideally returned to original packaging when not in use for extended periods of time.

Some separation will occur over time, in certain cases some light mixing may be required prior to use. For best results use within 4 months of manufacture.

For Safety & Handling information refer to SDS.

*Excellent product and delivered before expected. Particularly appreciated the courtesy call a couple of days after delivery to see if everything arrived.*

*Good products, helpful staff and very quick delivery. Excellent.*

*Excellent Customer Service. This company goes out of its way to ensure that you get complete satisfaction. Thank you Sinclair and Rush.*

