

# BiOH<sup>®</sup> POLYOLS

## Rigid Foams

BiOH<sup>®</sup> polyols offer superior performance while maintaining commitment to sustainability with renewable materials. Made from renewable vegetable sources, BiOH<sup>®</sup> polyols provide users with a long-term, reliable supply of premium ingredients.

BiOH<sup>®</sup> polyols are soy-based, and often used in creating rigid foams across many industries and applications. Commonly used in slabstock and various urethane applications, BiOH<sup>®</sup> polyols provide foamers to bring a renewable foam option to the market in place of petroleum-based polyols.

Cargill technology allows foam products to be created with up to 100% renewable polyol content.

### Environmental Benefits

- Up to 100% renewable material possible
- 61% reduction in non-renewable energy use
- 36% less global warming emissions
- Can contribute to reducing total energy demand

- Enhance performance
- Made from 80-99% renewable materials
- Reduce environmental impact
- Lower VOCs for safety and regulations
- Up to 87% renewable material possible

### Common Rigid Foam Applications

#### Insulation

Appliances - great energy efficiency with lower foam density and high compression strength.

Coolers - Lower foam density reduces volume required to maintain thermal properties.

Construction - high compression strength for demanding applications

#### Urethanes

Floral foam, car bumpers, mailbox post

#### Slab Stock

Bio-polyols offer environmentally conscious companies a renewable option for slab stock applications to reduce or replace less environmentally-friendly alternatives

**BiOH<sup>®</sup> Polyols for Rigid Foams**

- BiOH<sup>®</sup> 1105**      BiOH<sup>®</sup> 1105 is a polyol developed for the rigid foam market. It is versatile polyol that has also been used in the flexible foam market. It has a bio-content of 87%.
  
- BiOH<sup>®</sup> 2100**      BiOH 2100<sup>®</sup> is a pioneer bio-polyol with a high molecular weight. This product can be used in various urethane applications to help meet your sustainability goal. Is a leading bio-polyol for use in slab stock applications.
  
- BiOH<sup>®</sup> 3800**      BiOH<sup>®</sup> 3800 is a versatile bio-polyol with high functionality. This product can be used in various urethane applications to help meet sustainability goals, and is a leading bio-polyol for use in slab stock applications

BiOH <sup>®</sup> Product	Viscosity cP @ 25° C	OH Number	OH Functionality	Size
1105	3,300	355	2.33	Totes, Bulk
2100	10,000	230	1.7	Packaged, Bulk
3800	3,900	200	4.15	Bulk

Bioleic was created with Cargill to provide industrial customers with exceptional access to service, support, and products they need every day. Bioleic offers the market a unique opportunity to leverage Cargill's science and innovation, as well as flexible delivery options tailored to meet your unique business needs.

