



## Biostrength® 150

### Opaque Impact Modifier

#### PRODUCT DESCRIPTION

Biostrength® 150 impact modifier is a core shell impact modifier designed to increase toughness of polylactic acid (PLA).

#### TYPICAL PHYSICAL PROPERTIES

Physical Form	White Powder
Specific Gravity	1.0
Bulk Density	0.45 g/cc
Particle Size	2% Max on 18 Mesh
Percent Volatiles	1.0% Max

#### PRODUCT BENEFITS

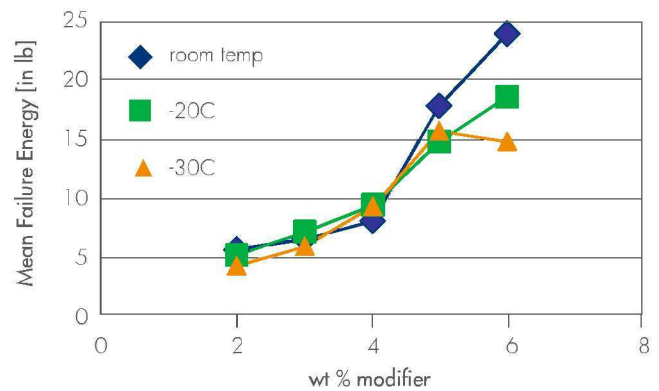
##### Impact Improvement

Biostrength® 150 impact modifier is a high efficiency modifier that increases impact strength of PLA for use in sheet extrusion, calendaring, injection molding and thermoforming.

##### Low Temperature Impact

Biostrength® 150 impact modifier retains high impact properties at low temperatures.

**Gardner Impact** 20 mil molded disk



#### SUGGESTIONS FOR USE

Biostrength® 150 impact modifier is recommended for use in PLA for opaque applications or applications that do not require high transparency. Typical use levels range from 2% to 15% by weight. Blends of Biostrength® 150 impact modifier and PLA can be processed in the same equipment and under the same processing conditions recommended for PLA. Prospective clients should evaluate Biostrength® 150 in their own laboratories to establish optimum conditions for use in their processes and applications. Arkema's Technical Service Team is available to discuss your application requirements, provide formulation guidance and laboratory testing as needed. The Technical Service Team can also provide the current clearances and limitations for use in food packaging applications.

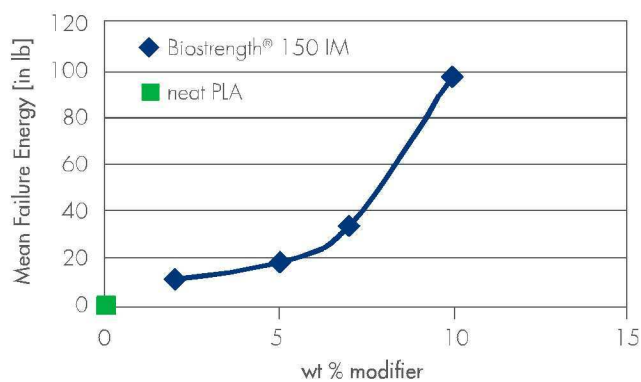
#### PACKAGING

Biostrength® 150 impact modifier is packaged in 40 lb (18 kg) bags and 950 lb bulk bags.

#### MASTERBATCH INFORMATION

Biostrength® 150 impact modifier can be supplied as a masterbatch in PLA. Contact your Arkema account manager for more information.

**Gardner Impact** 40 mil molded disk



## ENVIRONMENTAL AND SAFETY INFORMATION

BEFORE HANDLING THIS MATERIAL, READ AND UNDERSTAND THE MSDS (MATERIAL SAFETY DATA SHEET) / SDS (SAFETY DATA SHEET) FOR ADDITIONAL INFORMATION ON SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION.

The MSDS/SDS are available on our Website [www.arkema.com](http://www.arkema.com) or upon request at our Customer Service Department at +1 (800) 331 7654 in the US, and at +33 (0)1 4900 8837 in Europe. Arkema believes strongly in Responsible Care® as a public commitment.

## MORE TECHNICAL INFORMATION AVAILABLE

Ask your Arkema account manager for further information on high quality Arkema additives for use in PVC, PC, PBT, ABS, PLA and other polymer systems. Arkema produces a full line of impact modifiers, processing aids and epoxidized vegetable oils. In addition, Arkema's Technical Service staff is also available to assist compounders and processors with formulation and processing advice.

### Durastrength® Impact Modifiers

Durastrength® acrylic impact modifiers deliver outstanding impact characteristics for outdoor durable applications in PVC and Engineering Resins.

### Plastistrength® Process Aids

Plastistrength® process aids offer producers a complete line of melt strengtheners and metal release agents for PVC and Engineering Resins. Plastistrength® process aids can improve fusion, surging, and aesthetics.

### Clearstrength® Impact Modifiers

Clearstrength® MBS impact modifiers are designed for extreme impact or impact/clarity combination in PVC and Engineering Resins.

### Biostrength® Additives

The Biostrength® product line of impact modifiers, melt strengtheners and metal release agents are designed to improve properties and enhance processability of polylactic acid (PLA) and other biopolymers compounds.

### Vikoflex® Epoxy Plasticizers

The Vikoflex® line of epoxy plasticizers is derived from renewable resources, like epoxidized linseed oil, soybean and tall oil fatty acid esters for applications such as PVC plasticization, acid and mercaptan scavenging, specialty coatings, adhesives & urethanes, reactive diluents, PU flexible foam and intermediates for surfactants and lube & fuel additives.

Biostrength® 150 impact modifier is claimed by a pending patent.

## FOR MORE INFORMATION CONTACT

Please contact your local account manager or our headquarters:

In Europe:

ARKEMA

Functional Additives

420 Rue d'Estienne d'Orves

92705 COLOMBES Cedex, France

Tel: +33 (0)1 4900 8837

[functionaladditives.internet@arkema.com](mailto:functionaladditives.internet@arkema.com) (email)

In US:

Arkema Inc.

Functional Additives Customer Service

900 First Avenue, King of Prussia, PA

19406-1308

Tel: +1 (800) 331 7654

Fax: +1 (800) 205 7064

[arkema.usph-facs@arkema.com](mailto:arkema.usph-facs@arkema.com) (e-mail)

In Asia:

Arkema Pte Ltd.

10, Science Park Road, #01-01A, The Alpha

Singapore Science Park II, Singapore 117684

Tel: +65 6419 9199

[functionaladditives.internet@arkema.com](mailto:functionaladditives.internet@arkema.com) (email)

VISIT US AT OUR WEBSITE

[www.additives-arkema.com](http://www.additives-arkema.com)

IMPORTANT: The statements, technical information and recommendations contained herein are believed to be accurate as of the date hereof. Since the conditions and methods of use of the product and of the information referred to herein are beyond our control, ARKEMA expressly disclaims any and all liability as to any results obtained or arising from any use of the product or reliance on such information; NO WARRANTY OF FITNESS FOR ANY PARTICULAR PURPOSE, WARRANTY OF MERCHANTABILITY OR ANY OTHER WARRANTY, EXPRESS OR IMPLIED, IS MADE CONCERNING THE GOODS DESCRIBED OR THE INFORMATION PROVIDED HEREIN. The information provided herein relates only to the specific product designated and may not be applicable when such product is used in combination with other materials or in any process. The user should thoroughly test any application before commercialization. Nothing contained herein constitutes a license to practice under any patent and it should not be construed as an inducement to infringe any patent, and the user is advised to take appropriate steps to be sure that any proposed use of the product will not result in patent infringement.

© 2014 Arkema Inc. All rights reserved.

Clearstrength® and Plastistrength® are registered trademarks of Arkema

Biostrength® and Durastrength® are registered trademarks of Arkema Inc.

Vikoflex® is a registered trademark of Viking Chemical Company

Responsible Care® is a registered trademark of the American Chemistry Council Inc.