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

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical Form</td>
<td>White Powder</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>1.0</td>
</tr>
<tr>
<td>Bulk Density</td>
<td>0.45 g/cc</td>
</tr>
<tr>
<td>Particle Size</td>
<td>2% Max on 18 Mesh</td>
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<tr>
<td>Percent Volatiles</td>
<td>1.0% Max</td>
</tr>
</tbody>
</table>

PRODUCT BENEFITS

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

**Low Temperature Impact**
Biostrength® 150 impact modifier retains high impact properties at low temperatures.

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 1.5% 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.
ENVIROMENTAL 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 or upon request at our Customer Service Department at +1 (800) 331 7654 in the US, or 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.

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/opacity 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 plastization, acid and mercapto scavenging, specialty coatings, adhesives & urethanes, reactive diluents, PU flexible foam and intermediates for surfactants and lube & fuel additives.

Durastrength® Impact Modifiers

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

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

VISIT US AT OUR WEBSITE
www.additives.arkema.com

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