

Biostrength® 700

Melt Strength Enhancer

PRODUCT DESCRIPTION

Biostrength® 700 acrylic copolymer improves melt strength and enhances processability of polylactic acid (PLA).

TYPICAL PHYSICAL PROPERTIES

Physical Form	White Powder
Specific Gravity	1.17
Bulk Density	0.45 g/cc
Particle Size	2% Max on 40 Mesh
Percent Volatiles	1.2% Max

PRODUCT BENEFITS

Optical Properties

Biostrength® 700 copolymer is transparent in PLA at typical use levels.

Melt Strength

Biostrength® 700 copolymer increases melt strength of PLA for improved processing during extrusion, calendering, blow molding, thermoforming and injection molding.

Necking and Sagging of Melt

Biostrength® 700 copolymer decreases sagging and necking phenomena of the PLA melt, providing greater ease in processing and higher quality finished articles.

Regrind PLA and Poor Drying

Biostrength® 700 copolymer can be used to compensate for losses in melt strength when using high levels of regrind PLA or with insufficient drying of PLA.

Neat PLA



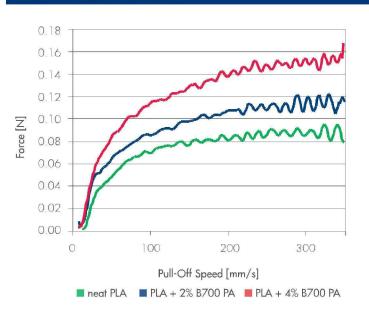


PLA with 4% Biostrength® 700 PA





Rheotens Analysis of PLA (170°C)



SUGGESTIONS FOR USE

Biostrength® 700 copolymer is recommended for use in PLA for applications where improvements in melt strength and ease of processability are desired. Typical use levels range from 1% to 5% by weight. Prospective clients should evaluate Biostrength® 700 copolymer 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® 700 copolymer is packaged in 20 kg bags.

MASTERBATCH INFORMATION

Biostrength® 700 copolymer can be supplied as a masterbatch in PLA. Contact your Arkema account manager for more information.

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 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 foom and intermediates for surfactants and lube & fuel additives

PATENT NOTICE: Biostrength® 700 acrylic copolymer is a product of Arkema Inc. The use of Biostrength® 700 acrylic copolymer may be protected under U.S. patent No. 7,666,946 and/or corresponding foreign 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 (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-fa-cs@arkema.com le-mai

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 (email)

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

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