



# Plastistrength<sup>®</sup> 552

## Acrylic Process Aid

### PRODUCT DESCRIPTION

Plastistrength<sup>®</sup> 552 is high molecular weight acrylic process aid designed to provide Engineering Plastics and its polymer blends such as PC/styrenic (PC/ASA, PC/SAN or PC/ABS) high homogeneity and stronger compatibility between the polymer phases at low loading levels.

### 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

- Owing to a unique chemical composition and polymer structure, Plastistrength<sup>®</sup> 552 process aid provides strong entanglements and higher melt shear process, thus allowing for more homogenous blends and finer blend morphology.
- Owing to its optimum acrylic copolymer chemistry allowing partial miscibility in various Engineering Plastics, Plastistrength<sup>®</sup> 552 process aids allows polymer blends such as PC/SAN or PC/ABS to have a stable morphology.
- Plastistrength<sup>®</sup> 552 process aid is capable of selectively entangling polymer chains which significantly reduces injection molding anisotropy.
- During injection molding, Plastistrength<sup>®</sup> 552 process aid controls dimensional melt flow and eliminates gate blush, jetting or any "shark-skin" defects that may be introduced by pigments or other polymeric additives.

### SUGGESTIONS FOR USE

Plastistrength<sup>®</sup> 552 process aid is recommended for PC/Styrenic blends where often stable morphology is obtained only by unique compounding know-how.

Plastistrength<sup>®</sup> 552 will open processing window and allow compounders to easily achieve high quality blend morphology necessary for high impact performance, high flow behaviour and additives dispersion.

Prospective clients should evaluate Plastistrength<sup>®</sup> 552 process aid in their own laboratories to establish optimum conditions 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.



### PACKAGING

Plastistrength<sup>®</sup> 552 process aid is packaged in 20 kg bags.

## 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.

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