

Plastistrength® 550

Acrylic Process Aid

PRODUCT DESCRIPTION

Plastistrength® 550 process aid is a medium molecular-weight acrylic process aid that brings enhanced processability to most rigid and flexible vinyl compounds such as siding, profile, pipe, calendered sheet, blow-molded bottles, and automotive interior trim parts.

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

*Typical properties not to be construed as specifications

PRODUCT BENEFITS

1. Plastistrength® 550 process aid is recommended where enhanced fusion and processability are required.
2. Plastistrength® 550 process aid imparts good hot melt strength to vinyl formulations during processing while minimizing die swell.
3. Plastistrength® 550 process aid has been extensively tested in weatherable applications and is widely used in exterior PVC building products where good weathering performance is critical.

SUGGESTIONS FOR USE

Plastistrength® 550 process aid is recommended for all vinyl applications where better processability and physical properties are desired. Typical uses are window profile, siding, injection-molded articles, calendered sheet, and blow-molded bottles.

Customers should evaluate Plastistrength® 550 process aid 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. Plastistrength® 550 is commonly used in PVC formulations for food or pharmaceutical packaging. Dedicated information on formulation and regulatory status is available upon request.

STARTING FORMULATION RECOMMENDATIONS

Rigid Bottle

PVC Resin (K-57)	100.0 phr
Methyl/Octyl Organotin Stabilizer	1.5 – 2.0
Internal Lubricant	1.5 – 2.0
External Lubricant	0.1 – 0.2
Plastistrength® 550 Process Aid	1.5 – 2.0
Plastistrength® 770 Process Aid	0.5 – 1.0
Clearstrength® 350 or 320 Impact Modifier	12.0 – 15.0
Toner	As required

Rigid Calendered Film and Sheet

PVC Resin (K-60)	100.0 phr
Methyl/Octyl Organotin Stabilizer	0.6 – 1.5
Internal Lubricant	1.5 – 2.0
External Lubricant	0.1 – 0.2
Plastistrength® 550 Process Aid	1.5 – 2.0
Plastistrength® 770 Process Aid	0.7 – 1.0
Clearstrength® 320 Impact Modifier	6.0 – 12.0
Toner	As required

Weatherable Profile

PVC Resin (K65-68)	100.0 phr
Methyl Organotin Stabilizer	1.0 – 1.5
Calcium Stearate	1.2 – 1.5
Parrafin Wax (165°F)	1.0 – 1.2
Plastistrength® 550 Process Aid	0.8 – 1.1
Plastistrength® 770 Process Aid	0.3 – 0.5
Durastrength® 200 Impact Modifier	5.0 – 6.0
Calcium Carbonate (0.7 µm)	0.0 – 5.0
Titanium Dioxide	9.0 – 10.0

PACKAGING

Plastistrength® 550 process aid is packaged in 20 kg bags and 1000 lb bulk bags.

ENVIRONMENTAL AND SAFETY INFORMATION

Before handling this material, read and understand the Safety Data Sheet (SDS) for additional information on handling, storage, and disposal of the product to ensure the health of users, the safety of facilities, and the protection of the environment. The SDS is available on our website www.arkema.com or upon request at our Customer Service Department. 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, epoxies, (meth)-acrylics, and other thermoplastic or thermosetting systems. Arkema produces a full line of impact modifiers and processing aids. In addition, Arkema's Technical Service staff is also available to assist compounders and processors with formulation and processing recommendations.

Durastrength® Impact Modifiers

Durastrength® acrylic impact modifiers deliver outstanding impact characteristics for outdoor durable applications in PVC, engineering resins and thermosets.

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.

Biostrength® Additives

Biostrength® impact modifiers are designed to improve properties and enhance processability of polylactic acid (PLA) and other biopolymer compounds.

FOR MORE INFORMATION CONTACT

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