

PLASTISTRENGTH®

TDS/TECHNICAL DATA SHEET

Plastistrength® 559 Acrylic Process Aid

PRODUCT DESCRIPTION

Plastistrength® 559 process aid is a medium-high molecular weight acrylic process aid providing enhanced processability at low use levels to rigid vinyl compounds, either compact or foam, particularly with mixed metal stabilization systems.

TYPICAL PHYSICAL PROPERTIES

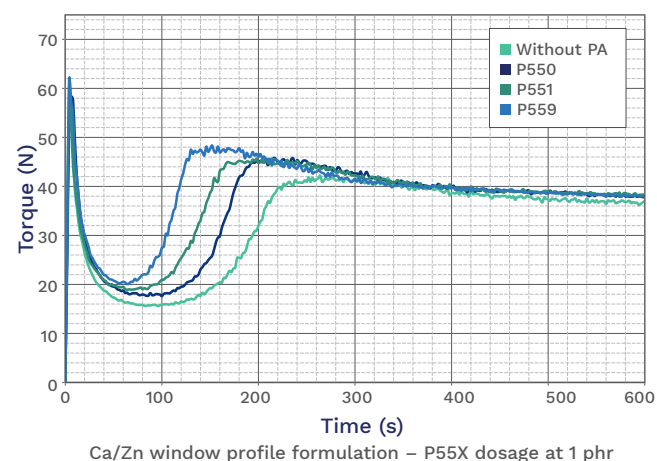
Physical Form	White Powder
Specific Gravity	1.11
Bulk Density	0.5 g/cm ³
Particle Size	2% Max on 40 Mesh
Percent Volatiles	1% by weight

PRODUCT BENEFITS

Fast gelation

Thanks to its medium-high molecular weight and optimized composition, Plastistrength® 559 process aid delivers enhanced fusion and melt strength.

Plastograph: 58g – 170g / 38rpm



PRODUCT BENEFITS

High shear during extrusion

Twin conical screw Polylab (thermoFischer)

	NO PROC. AID	P550	P551	P559
Pressure 22D (Bar)	98	102	104	112
Torque (%)	52	53	54	57

Ca/Zn window profile formulation – P55X dosage at 1 phr

Powder properties

Plastistrength® 559 process aid benefits from Arkema's expertise on optimizing additive powder properties for use in PVC processes.

SUGGESTIONS FOR USE

Plastistrength® 559 process aid is recommended for all PVC profiles and sheets produced by extrusion, especially when stabilized through Ca/Zn systems. Plastistrength® 559 process aid is suitable for both compact and foam sheets.

Typical recommended dosage is between 0.5 and 1.5 phr (except in foam where it is from 6 to 10 phr). Customers should evaluate Plastistrength® 559 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.

PACKAGING

Plastistrength® 559 process aid is packaged in 20 kg bags (500 kg per pallet), and 500 kg bulk bags (1000 kg per pallet).

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. 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 Epoxy, (meth)-acrylic and other polymer 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 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

Clearstrength® Impact Modifiers are designed for extreme impact or impact/clarity combination in PVC and Engineering Resins. Clearstrength® Impact Modifiers provide superior toughening effect in epoxy and (meth)-acrylic resins.

Biostrength® Additives

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.

FOR MORE INFORMATION CONTACT

Please contact your local account manager or our headquarters:

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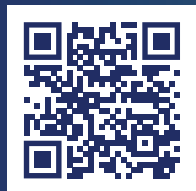
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