

PLASTISTRENGTH®

TDS/TECHNICAL DATA SHEET

Plastistrength® 530 Acrylic Process Aid

PRODUCT DESCRIPTION

Plastistrength® 530 process aid is a high molecular weight acrylic process aid that brings enhanced processability to high output extrusion, foam and highly filled compounds such as those found in wood-polymer composites.

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

1. Plastistrength® 530 process aid is recommended for applications where very high hot melt strength is critical.
2. Plastistrength® 530 process aid provides a uniform, closed-cell structure in cellular PVC.
3. In high output extrusion formulations, Plastistrength® 530 process aid provides the unique combination of quick fusion with low viscosity that maximizes output.
4. Plastistrength® 530 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® 530 process aid is recommended for applications such as profiles, foam pipe, foam profiles, foam sheet, wood composites and flexible vinyl.

Customers should evaluate Plastistrength® 530 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® 530 process aid is packaged in 20 kg bags and 500 kg and 1000 lb bulk bags.

STARTING FORMULATION RECOMMENDATIONS

FOAM CORE PIPE	FOAM
PVC Resin (K-65)	100.0 phr
Methyl Organotin Stabilizer 0.8 – 1.2	0.4 – 0.6
Calcium Stearate	0.5 – 0.8
Paraffin Wax (165°F mp)	0.8 – 1.5
Plastistrength® 530 Process Aid	2.0 – 5.0
Titanium Dioxide	0.5 – 1.5
Calcium Carbonate (0.7 µm)	5.0 – 10.0
Blowing Agent Package	0.5 – 1.2
FOAM SHEET	
PVC Resin (K-57-60)	100.0 phr
Methyl Organotin Stabilizer	2.0 – 3.0
Calcium Stearate	0.6 – 0.8
Paraffin Wax (165°F mp)	0.8 – 1.2
Plastistrength® 530 Process Aid	6.0 – 12.0
Plastistrength® 770 Process Aid	0.5 – 2.5
Calcium Carbonate (0.7 µm)	5.0 – 10.0
Titanium Dioxide	3.0 – 5.0
Blowing Agent Package	0.8 – 1.5
RIGID SIDING SUBSTRATE	
PVC Resin (K-65 to K-67)	100.0 phr
Butyl Organotin Stabilizer	0.8 – 1.2
Calcium Stearate	1.0 – 1.5
Paraffin Wax (165°F mp)	1.0 – 1.5
Oxidized Polyethylene Wax	0.1 – 0.2
Durastrength® 200H Impact Modifier	4.0 – 5.0
Plastistrength® 530 Process Aid	0.5 – 1.0
Calcium Carbonate (0.7µm)	7.0 – 18.0
Titanium Dioxide	1.0 – 2.0

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:

In Europe

ARKEMA
Arkema Coating Resins
420 Rue d'Estienne d'Orves
92705 COLOMBES Cedex, France
Tel: +33 (0) 149 008 080
plasticadditives.arkema.com/en/contact/

In US

Arkema Inc.
Coating Resins
410 Gregson DrCary, NC 27511
Tel: +1 (877) 331-6696
plasticadditives.arkema.com/en/contact/

In Asia

Arkema Pte Ltd.
10, Science Park Road, #01-01A,
The Alpha Singapore Science
Park II,
Singapore 117684
Tel: +65 6419 9199
plasticadditives.arkema.com/en/contact/

Don't hesitate to visit plasticadditives.arkema.com



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