

# Durastrength® 382

## Acrylic Impact Modifier

### PRODUCT DESCRIPTION

Durastrength® 382 is a new generation high rubber acrylic core-shell impact modifier designed to meet the most demanding impact standards in vinyl durable applications at low use levels.

Especially intended for the highest quality of window profiles, Durastrength® 382 impact modifier delivers an ideal combination of high impact strength, wide processing window, high surface finish gloss and excellent plate-out resistance.

Durastrength® 382 impact modifier is particularly recommended for use in Ca/Zn stabilised formulations, and is also valuable in flexible and CPVC applications.

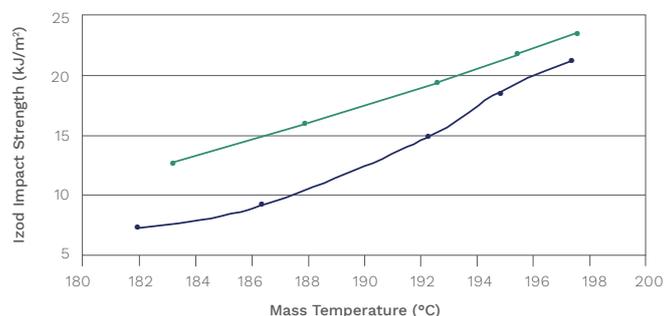
### TYPICAL PHYSICAL PROPERTIES

Physical Form	White Powder
Bulk Density	0.45 g/cc
Particle Size D10	100 µm
Particle Size D50	250 µm
Particle Size D90	450 µm
Percent Volatiles	1%

### PRODUCT BENEFITS

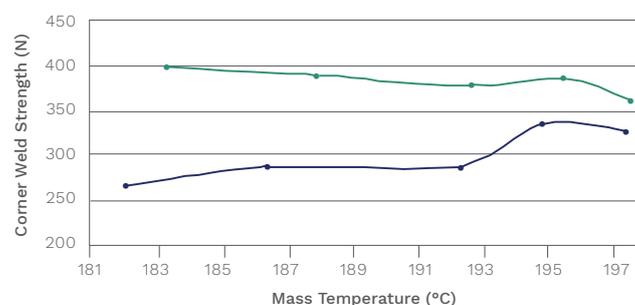
1. Thanks to its optimized synthesis process, Durastrength® 382 impact modifier offers advanced impact strength and corner weld strength properties which are particularly critical in Ca/Zn stabilised PVC window profiles.

#### Single V Notch Charpy (0.1mm)



### PRODUCT BENEFITS

#### Corner Weld Strength Performance



2. Durastrength® 382 impact modifier retains the excellent plate-out resistance level of its preceding Durastrength® 360 impact modifier resulting in flawless surface finish gloss of end products.

3. Durastrength® 382 impact modifier also allows faster gelation and a wider processing window to vinyl formulations versus existing products, making it a relevant choice for Ca/Zn stabilised formulations.

4. Durastrength® 382 impact modifier leverages the same long term weather resistance chemistry that has been proven by our Durastrength® series in the building and construction market for over 35 years.

5. Durastrength® 382 impact modifier benefits from improved powder characteristics such as higher bulk density, better flowability, and stronger lumping resistance, making it particularly suitable for bulk delivery.

### SUGGESTIONS FOR USE

Durastrength® 382 impact modifier is recommended for use in vinyl window profile, pipe and fittings, fencing, siding, roofing membranes, tarpaulins, decorative foils, injection moulding parts and all rigid and semi-rigid applications where extreme impact resistance and weatherability are required.

Durastrength® 382 impact modifier is suitable for lead, tin and mixed metal stabilised formulations.

Customers should evaluate Durastrength® 382 acrylic modifier 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

Durastrength® 382 is packaged in 20 kg bags (500 kg per pallet), 500 kg bulk bags (1000 kg per pallet) and bulk deliveries.

## 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. 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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