

# DURASTRENGTH®

TDS/TECHNICAL DATA SHEET

## Durastrength® 731

### Low Gloss Acrylic Impact Modifier

#### PRODUCT DESCRIPTION

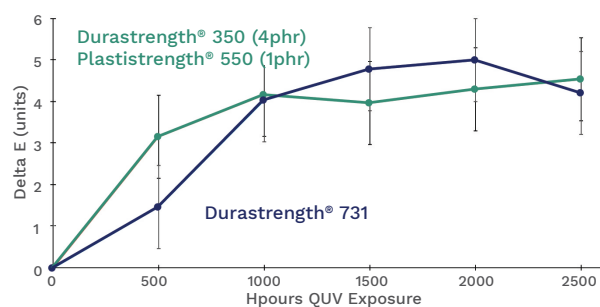
Durastrength® 731 is a low gloss impact modifier imparting excellent mechanical properties to rigid vinyl building products. While providing lower gloss values in co-extruded and monoextruded vinyl capstocks and profiles, Durastrength® 731 maintains impact properties necessary to meet standards across the building and construction market. Durastrength® 731 meets the weatherability of all Durastrength® impact modifier grades and provides the processability and rheology needed by vinyl rigid PVC manufacturers.

#### TYPICAL PHYSICAL PROPERTIES

Physical Form	White Powder
Bulk Density	0.45 g/cc
Particle Size	15% on 50 Mesh
Percent Volatiles	1.2% Max

#### PRODUCT BENEFITS

1. Based on Arkema's new low gloss technology, Durastrength® 731 offers consistent low gloss performance compared to other acrylic impact modifier technology.
2. Durastrength® 731 offers reduced gloss without compromising needed impact strength.
3. Durastrength® 731 was developed specifically for rigid PVC applications using Arkema's best-in-class acrylic high-rubber impact modifier technology.
4. Like all Durastrength® grades from Arkema, Durastrength® 731 is a proven, weatherable acrylic impact modifier for use in rigid PVC capstock and profile extrusions.

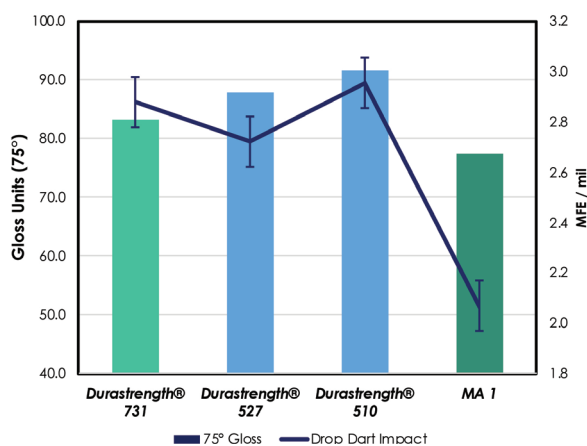


Consistent Durastrength® acrylic impact modifier weathering performance:

- All sample variation consistent with typical laboratory PVC extruded sheet QUV performance
- ASTM G154, cycle 1 (2500 hours) // 40 mill extruded sheet samples.

#### PRODUCT BENEFITS

##### Gloss and Drop Dart Impact Performance of Extruded PVC Sheet



\*PD-1151 / D-527 at 4 phr, D-510 at 5.5 phr

\*\*Matting agent at 1 phr in samples with 4 phr of acrylic additives

Component	phr
PVC Resin (0.91 IV)	100
19% Methyltin Stabilizer	1.0
Calcium Stearate	1.2
Paraffin Wax (165°F)	1.0
Oxidized PE wax	0.1
Durastrength® impact Modifier	4 - 5
Plastistrength® process aid	0 - 1
Calcium carbonate (0.7 µm)	5.0
Titanium dioxide	10

#### SUGGESTIONS OF USE

Durastrength® 731 low gloss impact modifier is recommended for use in tin and mixed-metal stabilized rigid vinyl formulations where reduced surface gloss is preferred for the final weatherable application. As with all impact modifiers for rigid vinyl applications, proper formulation is required to develop the proper balance of shear and mixing during extrusion to maximize impact properties. Durastrength® 731 is ideally suited for vinyl siding capstock, low gloss rigid profile including window, fence, deck and rail applications.

#### PACKAGING

Durastrength® 731 low gloss modifier is packaged in 50 lb bags and 1800 lb bulk 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. 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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