DURASTRENGTH® BY ARKEMA

Durastrength® 200

Acrylic Impact Modifier

PRODUCT DESCRIPTION

Durastrength® 200 is a general purpose acrylic impact modifier that improves the impact properties of rigid vinyl products. The unique chemistry of Durastrength® 200 impact modifier has made it the leading impact modifier used in exterior durable building products for over 35 years. Durastrength® 200 impact modifier offers outstanding long-term weather resistance, impact retention and low-temperature impact resistance in combination with unsurpassed ease of processing.

TYPICAL PHYSICAL PROPERTIES

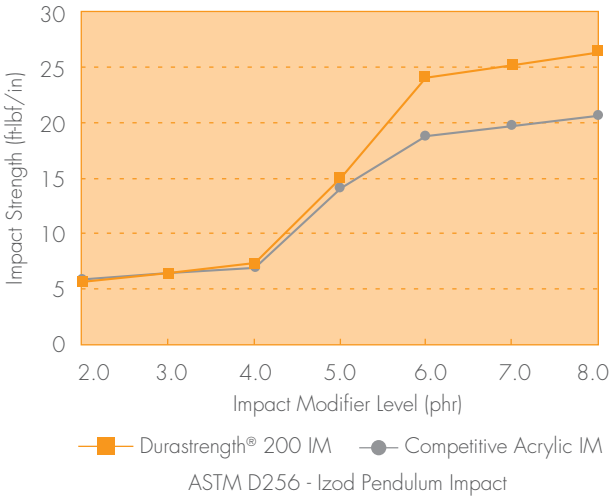
Physical Form	White Powder
Specific Gravity	1.13
Bulk Density	0.48 g/cc
Particle Size	10% Max on 50 Mesh
Percent Volatiles	1.2% Max

PRODUCT BENEFITS

1. Durastrength® 200 impact modifier has been extensively tested for long-term weather resistance, retaining excellent impact resistance and color. Similar weathering benefits are seen in translucent applications.

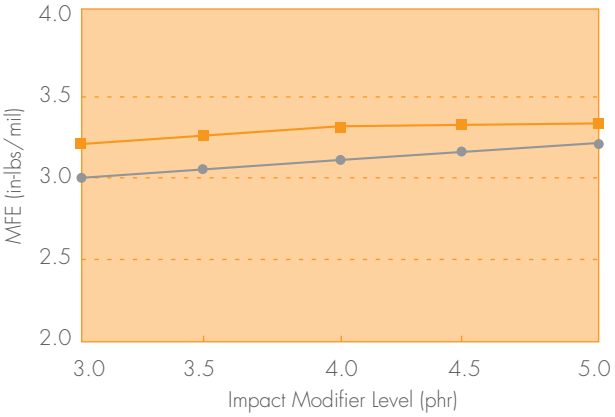
2. The chemical composition of Durastrength® 200 impact modifier is well known for its excellent room-temperature and low-temperature impact resistance as measured by both the Izod and Gardner impact tests.

Izod Impact Testing (22°C)



ASTM D256 - Izod Pendulum Impact

Dart Drop Impact Resistance (22°C)



ASTM D4226 - Falling Weight Impact

3. Because of the low melt viscosity of Durastrength® 200 impact modifier, extrusion temperatures are lower, resulting in enhanced compound stability and output.

4. Vinyl formulations employing Durastrength® 200 impact modifier exhibit reduced melt viscosity which helps to reduce extrusion pressures, prolonging screw and barrel life.

5. The low melt viscosity of Durastrength® 200 impact modifier allows higher output without increasing extruder amps.

6. The wide processing window of Durastrength® 200 impact modifier assures a consistently flawless surface finish.

SUGGESTIONS FOR USE

Durastrength® 200 impact modifier is recommended for applications such as vinyl siding, window profiles and fencing where good outdoor weathering and low-temperature impact resistance are critical properties. Durastrength® 200 impact modifier is also ideally suited for impact modification of pipe, conduit and injection molded goods. Its low melt viscosity and rapid fusion characteristics are ideal for custom injection molding applications. Use of Durastrength® 200 impact modifier in injection molding formulations imparts excellent flow and high gloss to finished products.

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 and other polymer systems. Arkema produces a full line of impact modifiers, processing aids and epoxidized vegetable oils. 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 Modifiers

Clearstrength® MBS impact modifiers are designed for extreme impact or impact/clarity combination in PVC and Engineering 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.

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