

Durastrength® 350

Acrylic Impact Modifier

PRODUCT DESCRIPTION

Durastrength® 350 impact modifier is a high-performance acrylic impact modifier that imparts superior impact properties to rigid vinyl products. It was designed to give the impact resistance necessary to pass critical impact test procedures, while maintaining the excellent weatherability, processability and flow properties of Durastrength® 200 impact modifier.

TYPICAL PHYSICAL PROPERTIES*

Physical Form	White powder
Specific Gravity	1.1
Bulk Density	0.45 g/cc
Particle Size	15% Max on 50 Mesh
Percent Volatiles	1.2% Max

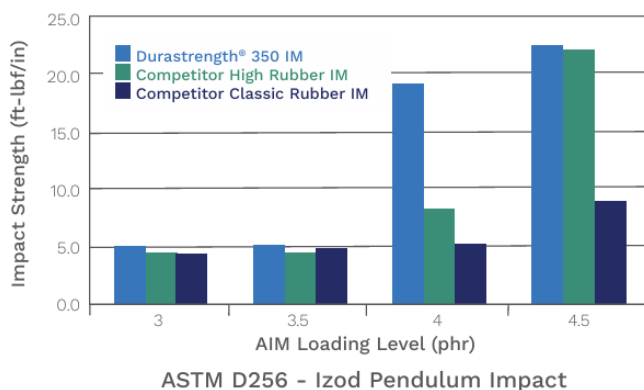
*Typical properties not to be construed as specifications

PRODUCT BENEFITS

Because it was developed with the customer in mind, Durastrength® 350 brings a wealth of benefits to compounders and manufacturers such as:

1. Durastrength® 350 impact modifier provides superior long-term weather resistance while retaining impact resistance and color retention.
2. Durastrength® 350 impact modifier imparts excellent room temperature impact resistance while maintaining industry required low-temperature impact resistance.

Izod Impact (Window Profile Formulation)

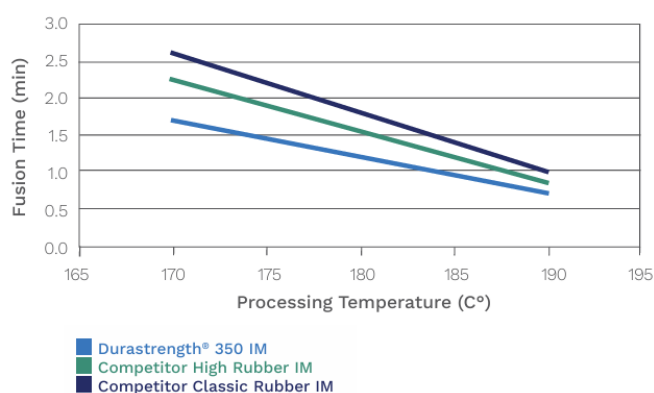


PRODUCT BENEFITS

3. Durastrength® 350 impact modifier provides a broad process window allowing flexibility in processing temperature and output.

4. Durastrength® 350 impact modifier offers faster fusion over competitive acrylic impact modifiers without the need for additional process aids.

Fusion Time vs. Processing Temperature



SUGGESTIONS FOR USE

Durastrength® 350 impact modifier is ideally suited for vinyl window profile, siding, fencing, decking, pipe, and conduit. The low melt viscosity and rapid fusion characteristics of Durastrength® 350 impact modifier are also ideal for difficult injection molding applications.

Durastrength® 350 impact modifier is recommended for use in tin, lead, and mixed-metal stabilized profile applications where enhanced room and cold-temperature impact resistance is required. As with all impact modifiers for PVC, proper formulation is required to develop the proper shear and mixing during extrusion so that impact properties are optimized.

Prospective customers should evaluate Durastrength® 350 impact 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.

STARTING FORMULATION
RECOMMENDATIONS

Window Profile	
PVC Resin (K-65 to K-67)	100.0 phr
Methyl Organotin Stabilizer	1.0 – 1.5
Calcium Stearate	1.0 – 1.5
Paraffin/Ester Lubricant	0.8 – 1.5
Oxidized Polyethylene	0.0 – 0.2
Durastrength® 350 Impact Modifier	4.25 – 5.25
Plastistrength® 530 / 550 Process Aid	0.3 – 1.0
Plastistrength® 770 Process Aid	0.2 – 0.5
Calcium Carbonate (0.7µm)	3.0 – 8.0
Titanium Dioxide	9.0 – 10.0

Custom Injection Molding	
PVC Resin (K-55)	100.0 phr
Butyl Organotin Stabilizer	2.0 – 2.5
Paraffin Wax (165°F mp)	1.0 – 1.5
Calcium Stearate	1.5 – 2.0
Durastrength® 350 Impact Modifier	6.5 – 10.0
Plastistrength® 550 Process Aid	1.5 – 2.0
Plastistrength® 770 Process Aid	0.5 – 1.0
Calcium Carbonate (0.8µm)	0.0 – 5.0
Titanium Dioxide	2.0 – 5.0

PACKAGING

Durastrength® 350 impact modifier is packaged in 22.7 kg small bags (50 bags per pallet) and 816 kg big bags.

ENVIRONMENTAL AND SAFETY INFORMATION

Before handling this material, read and understand the Safety Data Sheet (SDS) for additional information on handling, storage, and disposal of the product to ensure the health of users, the safety of facilities, and the protection of the environment. The SDS is 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, epoxies, (meth)-acrylics, and other thermoplastic 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 recommendations.

Durastrength® Impact Modifiers

Durastrength® acrylic impact modifiers deliver outstanding impact characteristics for outdoor durable applications in PVC, engineering resins and thermosets.

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.

Biostrength® Additives

Biostrength® impact modifiers are designed to improve properties and enhance processability of polylactic acid (PLA) and other biopolymer compounds.

FOR MORE INFORMATION CONTACT

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