

CLEARSTRENGTH®

TDS/TECHNICAL DATA SHEET

Clearstrength® W300

Acrylic Impact Modifier for Clear Applications

PRODUCT DESCRIPTION

Clearstrength® W300 is a core-shell acrylic specialty copolymer designed to impart impact strength, weathering resistance and optical properties to vinyl formulations.

Combining the weathering resistance of acrylic impact modifiers (AIM) and the optical properties of methylmethacrylate-butadiene-styrene (MBS) impact modifiers, Clearstrength® W300 impact modifier is the preferred choice for durable PVC products where clarity or colour rendering is important.

TYPICAL PHYSICAL PROPERTIES

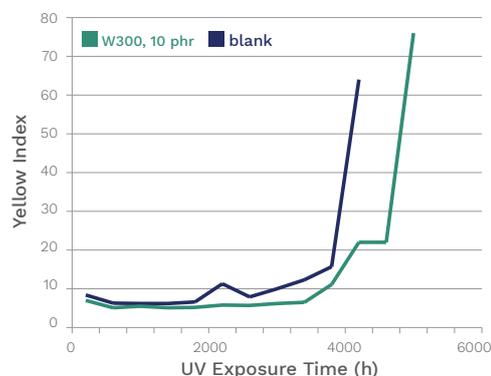
Physical Form	White Powder
Specific Gravity	1.02
Bulk Density	0.39 g/cc
Particle Size	2% Max on 850 µm
Percent Volatiles	1.0% Max

PRODUCT BENEFITS

Purity

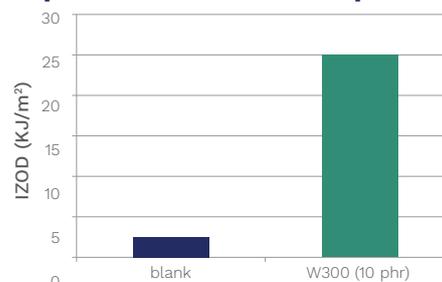
With unsurpassed purity over acrylic impact modifiers through unique coagulation process, Clearstrength® W300 impact modifier is highly valuable in both clear and opaque applications, as it enables to create products with outstanding surface quality and color rendering.

Weathering Resistance: Color Evolution through Xenotest



PRODUCT BENEFITS

Impact Resistance: Izod impact, ISO 180, type 4A



Optical Properties



Formulation (phr): PVC Kw62: 100, tin maleate: 2.1, internal lubricant: 0.8, ESBO: 1, Plastistrength® 550 PA: 2, Plastistrength® L1000 PA: 0.15, oxidised PE wax: 0.15, UVA: 0.3

SUGGESTIONS FOR USE

Clearstrength® W300 impact modifier is recommended for use in durable applications such as wood plastic or furniture film top layer, corrugated sheets for roofing and twinwalls, swimming pool covers, advertising signs, label holders and all transparent profiles and injection molded parts that need impact retention and long term UV resistance.

Recommended loading levels depend on impact requirement. Typical levels range from 8 to 15%. Prospective clients should evaluate Clearstrength® W300 impact modifier in their own laboratories to establish optimum conditions for use in their process and applications. Arkema's Technical Service Team is available to discuss your application requirements, provide formulations guidance and laboratory testing as needed.

PACKAGING

Clearstrength® W300 impact modifier is packaged in 25 kg bags (625 kg per pallet) and 625 kg bulk bags (625 kg per pallet).

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

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