

Clearstrength® E950

MBS Impact Modifier for Engineering Resins

PRODUCT DESCRIPTION

Clearstrength® E950 is a new methylmethacrylate-butadiene-styrene (MBS) core-shell impact modifier designed to impart excellent ambient and cold temperature toughness to engineering polymers.

Clearstrength® E950 impact modifier is produced using a proprietary technology resulting in improved impact performance consistency and stability under severe processing conditions.

Clearstrength® E950 impact modifier is aimed to formulate polycarbonate, polyesters and a variety of polycarbonate blends, particularly PC/PBT.

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

Superior Low Temperature Impact

Clearstrength® E950 impact modifier allows to create products that can withstand impact at <-40°C and still remain ductile. Through optimized rubber particle size distribution brought by Arkema proprietary technology, Clearstrength® E950 impact performance is remarkably consistent.

Improved Thermal Stability

Clearstrength® E950 impact modifier provides improved impact retention compared to other high impact MBS when used under hot processing conditions.

Good Dispersion and Mechanical Properties Retention

Easily dispersed using conventional compounding techniques, Clearstrength® E950 impact modifier imparts exceptional toughening while keeping good melt flow and modulus.

PRODUCT BENEFITS

Property	PC/PBT (50/50)	PC/PBT + 12 % Clearstrength® E950 IM
MVR, 280°C, 1.2 kg		13
Modulus (MPa)	2200	2100
Impact Energy* (kJ/m ²)	23°C	6
	-30°C	ND**
	-40°C	ND**

Property	Neat PC	PC + 5 % Clearstrength® E950 IM
MVR, 280°C, 1.2 kg	25	19
Modulus (MPa)	2200	2100
Impact Energy* (kJ/m ²)	23°C	15
	-10°C	ND**
	-20°C	ND**

ISO 1133:2011 for MVR, Melt Volume-flow Rate

*ISO 180:2000 type 1eA specifications for notched Izod impact tests.

**Not Determined

SUGGESTIONS FOR USE

Clearstrength® E950 impact modifier is recommended for use in automotive applications, such as bumpers, front radiator grills and battery housing for electrical vehicles. Clearstrength® E950 impact modifier is also designed for electrical and electronic applications including TV, monitor and mobile phone housing, home appliances and all polycarbonate and polyester blends applications where excellent impact strength and colorability are required.

The loading concentration depending on impact requirement is generally from 3 to 15%. Prospective clients should evaluate Clearstrength® E950 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® E950 impact modifier is packaged in 20 kg bags (500 kg per pallet) and 700 kg bulk bags (700 kg per pallet).

ENVIRONMENTAL AND SAFETY INFORMATION

Before handling this material, read and understand the Safety Data Sheet (SDS) for additional information. 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.

Clearstrength® Impact Modifiers

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 thermosetting resins.

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

Please contact your local account manager or our headquarters:

Europe

Arkema
Arkema Coating Resins
420 Rue d'Estienne d'Orves
92705 Colombes Cedex, France
Tel: +33 (0) 149 008 080
plasticadditives.arkema.com/en/contact/

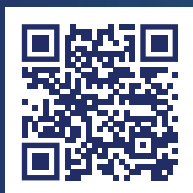
US

Arkema Inc.
Arkema Coating Resins
410 Gregson Dr.
Cary, NC 27511
Tel: +1 (877) 331-6696
plasticadditives.arkema.com/en/contact/

Asia

Arkema Pte Ltd.
10 Science Park Road, #01-01A
The Alpha Singapore Science Park II
Singapore 117684
Tel: +65 6419 9199
plasticadditives.arkema.com/en/contact/

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