

CLEARSTRENGTH®

TDS/TECHNICAL DATA SHEET

Clearstrength® E922

MBS Impact Modifier for Engineering Resins

PRODUCT DESCRIPTION

Clearstrength® E922 is a methacrylate-butadiene-styrene (MBS) core-shell impact modifier designed to impart excellent ambient and low temperature toughness to engineering polymers.

Clearstrength® E922 impact modifier is aimed to formulate polycarbonate, polyesters and a variety of polycarbonate blends, particularly PC/ABS, for maximum impact.

TYPICAL PHYSICAL PROPERTIES

Physical Form	Pellet
Specific Gravity	1.02
Bulk Density	1.0% max by weight

Clearstrength® E922 is the pellet form of Clearstrength® E920 impact modifier. Please refer to the Clearstrength® E920 technical data sheet for more information on the powder.

PRODUCT BENEFITS

Superior Low Temperature Impact

Clearstrength® E922 impact modifier allows to create products that can withstand impact at <-40°C and still remain ductile.

Good Dispersion

Clearstrength® E922 impact modifier is easily dispersed using conventional compounding techniques. The resulting engineering plastic compounds flow readily in moulding equipment and have exceptional impact strength and appearance.

Balanced Property Control

Clearstrength® E922 impact modifier permits low-temperature impact retention of low-viscosity resins while minimizing its influence on other physical and mechanical properties.

PRODUCT BENEFITS

Property	Neat PC	PC + 5 % Clearstrength® E922 IM
MVR, 280°C, 1.2 kg	25	21
Modulus (MPa)	2200	2200
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

Property	Neat PC/ABS (65/35)	PC/ABS + 5 % Clearstrength® E922 IM
Impact Energy* (kJ/m ²)	-20°C	8
		25

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

SUGGESTIONS FOR USE

Clearstrength® E922 impact modifier is recommended for use in automotive applications, electrical/electronic components and all PC and PC/ABS parts where ease of processing, thermal stability, excellent low temperature impact and good balance of physical properties are important.

Recommended loading levels depend on impact requirement. Typical levels range from 5 to 15%. Prospective clients should evaluate Clearstrength® E922 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® E922 impact modifier is packaged in 20 kg bags (500 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

Please contact your local account manager or our headquarters:

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