

CLEARSTRENGTH® XT152

High Performance Toughening Agent Tailored for **Low Polar Methacrylic Resins**

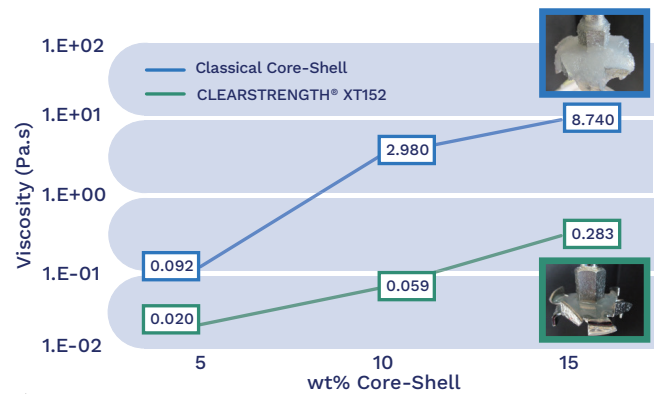
- Methylmethacrylate-Butadiene-Styrene (**MBS**) core shell
- Tailored for **low polar methacrylic resins**
- Optimized to the **most demanding electronic and additive applications**
- Performance **without effect on glass transition temperature**

-  TOUGHENING
-  COLD TEMPERATURE
-  LOW VISCOSITY
-  LOW POLARITY FORMULATION
-  EASY PROCESSING
-  ENERGY SAVINGS

TYPICAL PHYSICAL PROPERTIES

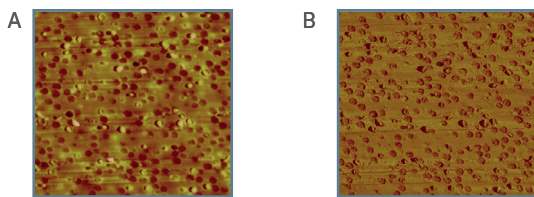
Physical Form	White Powder
Specific Gravity	1.02
Bulk Density	0.3 g/cc
Average Powder Particle Size	200 µm
Percent Volatiles	< 1 wt%
Core-Shell Average Particle Size	<200 nm

VISCOSITY EFFECT IN IBOA* BASED METHACRYLIC UV FORMULATION



*IBOA: Isobornyl acrylate

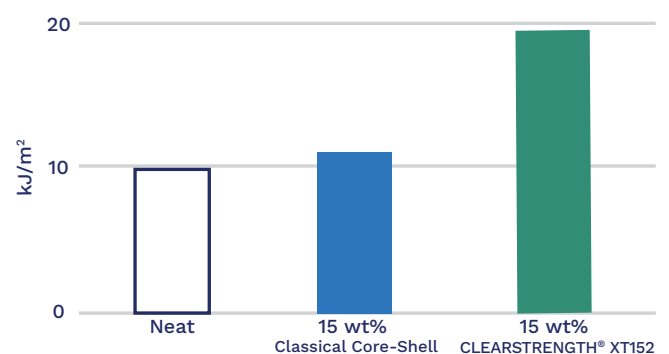
CLEARSTRENGTH® XT152 has a **low impact on viscosity**.



A) Classical Core-Shell B) CLEARSTRENGTH® XT152

Enhancing compatibility reaching dispersion at the individual core-shell in **low polar/hydrophobic methacrylic systems**.

UNNOTCHED IMPACT STRENGTH IN IBOA* BASED METHACRYLIC FORMULATION



*IBOA: Isobornyl acrylate

CLEARSTRENGTH® XT152 provides **high toughening effect**.

DISPERSION GUIDELINE

- CLEARSTRENGTH® XT152 powder can be dispersed in liquid monomers preferably with a medium shear mixer at room temperature.
- Dilution of high core-shell content preparation can be achieved with standard anchor blade homogenization.
- CLEARSTRENGTH® XT152 powder can also be dispersed via melt extrusion or shear incorporation process.

SUGGESTION FOR USE

- CLEARSTRENGTH® XT152 is particularly recommended to increase the toughness and flexibility of low polar / hydrophobic resins such as those used in structural adhesives and electronic and composite applications.
- CLEARSTRENGTH® XT152 is a unique toughening solution that does not affect thermomechanical properties (glass transition temperature).
- Loading levels depend on final application and associated technical performance requirements.
- Arkema's Technical Service staff is available to discuss your application requirements and provide dispersion guidance as needed.

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

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