

# Clearstrength® C-859

# MBS Impact Modifier

### PRODUCT DESCRIPTION

Clearstrength® C-859 is a methylmethacrylate-butadiene-styrene (MBS) core-shell impact modifier designed to meet the most demanding impact performances in injection molding, extrusion and calendering opaque applications.

Clearstrength® C-859 impact modifier is the next generation Clearstrength® C-223 impact modifier, which low-temperature impact performance and processability have made it a leading impact modifier used in CPVC pipes and fittings, furniture films and indoor profiles for over 25 years.

## TYPICAL PHYSICAL PROPERTIES

Physical Form	White Powder
Specific Gravity	1.02
Bulk Density	0.39 g/cc
Particle Size	2% Max on 18 mesh
Percent Volatiles	1.0% Max

### SUGGESTIONS FOR USE

Clearstrength® C-859 impact modifier is recommended for use in PVC and C-PVC pipes and fittings, high quality technical films, edge-bands, and all applications requiring ultra high impact efficiency, especially at low temperatures.

Clearstrength® C-859 impact modifier is commonly used in formulations for food contact or drinking water conduction. Dedicated information on regulatory status is available upon request.

Recommended loading levels depend on impact requirement. Prospective clients should evaluate Clearstrength® C-859 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**

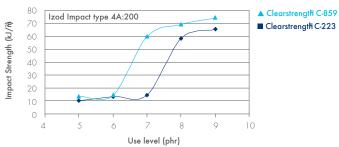
Clearstrength® C-859 impact modifier is packaged in 18 kg bags (450 kg per pallet) and 450 kg bulk bags (450 kg per pallet).

### **PRODUCT BENEFITS**

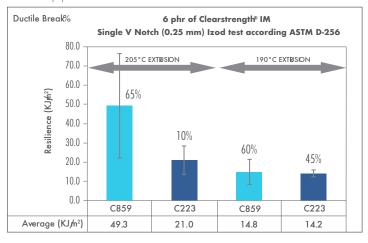
# **Impact Strength**

Thanks to its higher rubber content, Clearstrength® C-859 impact modifier exhibits unsurpassed impact efficiency at room and low temperature. Clearstrength® C-859 may advantageously replace Clearstrength® C-223 in new formulations intended to develop higher performance products or to reduce costs through dosage optimization, especially under hot processing conditions.

In technical film formulation:



In CPVC pipe formulation:



# **Color Stability and Processability**

The unique structure of Clearstrength® C-859 impact modifier makes it suitable to withstand severe processing conditions with minimal effect on heat stability and mechanical properties.

# **Surface Finish**

Clearstrength® C-859 impact modifier allows products to be created with a perfect quality surface, high level of gloss and Vicat.

# 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 and other polymer systems. Arkema produces a full line of impact modifiers, processing aids and epoxidized vegetable oils. 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 Modifiers

Clearstrength® MBS impact modifiers are designed for extreme impact or impact/clarity combination in PVC and Engineering 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:

# In Europe:

**ARKFMA** 

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www.additives-arkema.com www.arkema.com

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