

DURASTRENGTH®

TDS/TECHNICAL DATA SHEET

Durastrength® 480

Acrylic Impact Modifier

PRODUCT DESCRIPTION

Durastrength® 480 is an acrylic core shell modifier designed to impart excellent impact properties and cold temperature toughness to engineering polymers, such as polycarbonate and its blends. Durastrength® 480 impact modifier offers outstanding long-term weather resistance and is ideal for outdoor applications.

TYPICAL PHYSICAL PROPERTIES

Physical Form	White Powder
Specific Gravity	1.02
Bulk Density	0.4 g/cm ³
Particle Size	2% Max on 50 Mesh
Percent Volatiles	1.0% Max

PRODUCT BENEFITS

1. Durastrength® 480 impact modifier has a high rubber content allowing excellent impact at ambient and cold temperatures.

PROPERTY		NEAT HIGH FLOW PC	PC + 5% D480 IM
Impact Energy* (ft-lb/in)	0°C	2	12
	-10°C	2	11
	-20°C	2	8.5

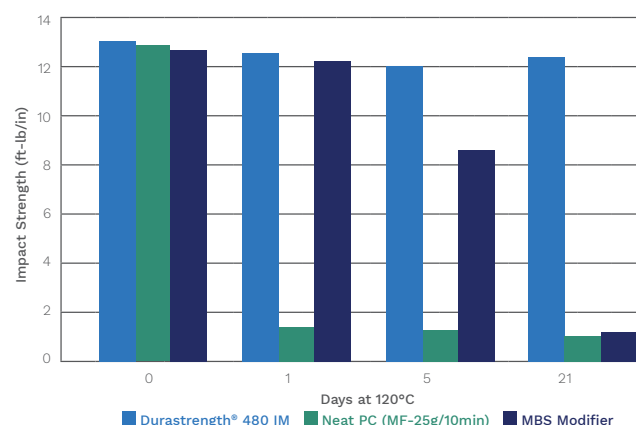
*ASTM D256 specifications for notched IZOD impact tests.

2. Durastrength® 480 impact modifier provides excellent weatherability, opening the door for use in applications that demand good colorability and retention of mechanical properties upon exposure to the elements. This enabling technology is especially designed for mold-in color applications.

3. The all-acrylic chemistry of the Durastrength® 480 impact modifier provides exceptional impact retention needed for high temperature end-use applications.

PRODUCT BENEFITS

Thermal Aging of Durastrength® 480 IM in PC



*ASTM D256 specifications for notched IZOD impact tests. Formulations contain 5% impact modifier.

SUGGESTIONS FOR USE

Durastrength® 480 impact modifier is recommended for use in PC and PC blends where superior low temperature impact and weatherability are required.

Durastrength® 480 impact modifier is recommended for use in application such as automotives, lawn and garden equipment, and recreational vehicles where weatherability and good low temperature impact are important.

Prospective clients should evaluate Durastrength® 480 impact modifier in their own laboratories to establish optimum conditions for used 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

Durastrength® 480 impact modifier is packaged in 20 kg bags and 750 kg and 900 kg bulk bags.

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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