

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.

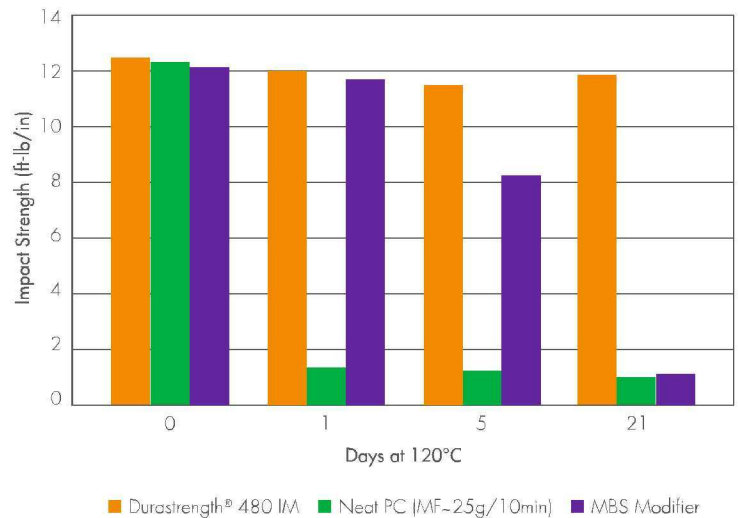
| Property | | Neat High Flow PC | PC + 5% D480 IM |
|------------------------------|-------|-------------------|-----------------|
| Impact Energy* (ft-lb/in) | 0°C | 2 | 12 |
| | -10°C | 2 | 11 |
| | -20°C | 2 | 8.5 |

*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.

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 at +1(800) 331 7654 in the US, and at +33 (0)1 4900 8837 in Europe. 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

The 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.

Vikoflex® Epoxy Plasticizers

The Vikoflex® line of epoxy plasticizers is derived from renewable resources, like epoxidized linseed oil, soybean and tall oil fatty acid esters for applications such as PVC plasticization, acid and mercaptan scavenging, specialty coatings, adhesives & urethanes, reactive diluents, PU flexible foam and intermediates for surfactants and lube & fuel additives.

FOR MORE INFORMATION CONTACT

Please contact your local account manager or our headquarters:

In Europe:
ARKEMA
Functional Additives
420 Rue d'Estienne d'Orves
92705 COLOMBES Cedex, France
Tel: +33 (0)1 4900 8837
functionaladditives.internet@arkema.com
(email)

In US:
Arkema Inc.
Functional Additives Customer Service
900 First Avenue, King of Prussia, PA
19406-1308
Tel: +1 (800) 331 7654
Fax: +1 (800) 205 7064
arkema.usph-fa-cs@arkema.com (e-mail)

In Asia:
Arkema Pte Ltd.
10, Science Park Road, #01-01A, The Alpha
Singapore Science Park II, Singapore 117684
Tel: +65 6419 9199
functionaladditives.internet@arkema.com
(email)

VISIT US AT OUR WEBSITE
www.additives-arkema.com

IMPORTANT: The statements, technical information and recommendations contained herein are believed to be accurate as of the date hereof. Since the conditions and methods of use of the product and of the information referred to herein are beyond our control, ARKEMA expressly disclaims any and all liability as to any results obtained or arising from any use of the product or reliance on such information; NO WARRANTY OF FITNESS FOR ANY PARTICULAR PURPOSE, WARRANTY OF MERCHANTABILITY OR ANY OTHER WARRANTY, EXPRESS OR IMPLIED, IS MADE CONCERNING THE GOODS DESCRIBED OR THE INFORMATION PROVIDED HEREIN. The information provided herein relates only to the specific product designated and may not be applicable when such product is used in combination with other materials or in any process. The user should thoroughly test any application before commercialization. Nothing contained herein constitutes a license to practice under any patent and it should not be construed as an inducement to infringe any patent, and the user is advised to take appropriate steps to be sure that any proposed use of the product will not result in patent infringement.

© 2014 Arkema Inc. All rights reserved.

Clearstrength® and Plastistrength® are registered trademarks of Arkema

Biostrength® and Durastrength® are registered trademarks of Arkema Inc.

Vikoflex® is a registered trademark of Viking Chemical Company

Responsible Care® is a registered trademark of the American Chemistry Council Inc.