

SPECIALLY ENGINEERED FUNCTIONAL ADDITIVE FOR POLYMER REINFORCEMENT

EMforce® additive

EMforce® additive is a specially engineered, high aspect ratio, synthetic calcium carbonate mineral designed to provide a unique balance of excellent impact toughness and high flexural modulus (stiffness) for polymers. EMforce® additive provides a simple, cost effective method for improving the impact-stiffness balance of thermoplastic polymer compounds.

KEY BENEFITS

- Unique Balance Between Toughness and Stiffness
- Excellent Impact Resistance and Ductility at Low Temperatures (-40°C)
- Lower Impact Modifier Usage Levels While Maintaining 100% Ductility
- Achieve Higher Brightness Color
- Extension of Resin Property Envelope
- Replacement of More Expensive Resin and Modifiers

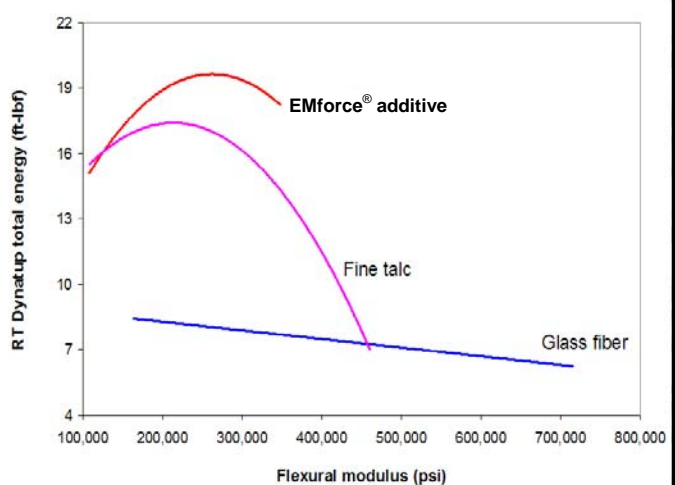
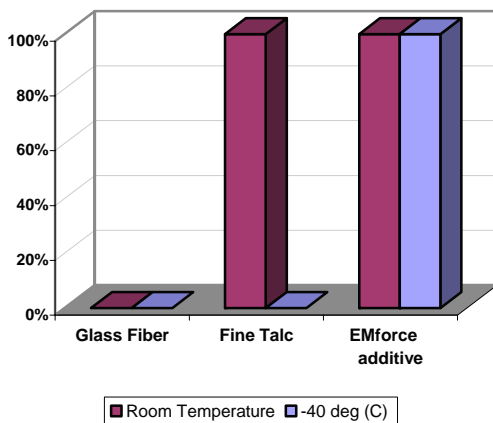
Typical Properties

Average Major axis (microns)	1.1
Average Minor axis	0.25
Aspect ratio	5.4
Specific Gravity	2.7
Dry Brightness (Hunter Y, Rd value)	> 94
Surface Area (meters ² /gram)	10

Chemical Composition (wt%)

Calcium Carbonate	Ca	> 33
Iron as	Fe ₂ O ₃	< 0.1
Moisture (% weight loss @ 110° C)	H ₂ O	< 0.3

Dynatup Ductile Failures
(EO=17.5%, Additive=15%)



All products are sold on the understanding that the user is solely responsible for determining their suitability for the intended use. All information given and recommendations made herein are based upon our research and are believed to be accurate, but no guarantee, either expressed or implied, is made with respect thereto or with respect to the infringement of any patent. SMI MAKES NO WARRANTY OF MERCHANTABILITY OR SUITABILITY FOR ANY PARTICULAR PURPOSE IN CONNECTION WITH ANY SALE OF THE PRODUCTS DESCRIBED HEREIN. Inconsistent terms and conditions contained in Buyer's purchase order shall not be binding on SMI/BMI unless reflected in writing signed by SMI/BMI's representative. The information contained herein is not to be copied or otherwise used in any publication in whole or in part without written permission from Specialty Minerals Inc./Barretts Minerals Inc.

Sales Offices

Bethlehem, PA • 610-997-8394
www.mineralstech.com

EMforce® is a trademark of
Minerals Technologies Inc. or its subsidiaries
© Specialty Minerals Inc. rev. 9/2008