



Endex International

Innovation for the Future

ENDEX 1020™

High Temperature

Endothermic Chemical Foaming Agent and Process Aid

Endex 1020™ is a high efficiency, pelletized concentrate in a thermoplastic polymer carrier. It is designed for use in moisture sensitive engineering plastics, especially POLYCARBONATE and PET. It is intended to be used at high processing temperatures, 205 - 315 °C (400 - 600 °F).

Endex 1020™ endothermic chemical foaming agent utilizes innovative technology to produce superior quality foamed products. It generates fine, closed-cell foams, which result in moldings and extrusions of high quality.

Endex 1020™ processing aid can be used in injection molding for cycle time reduction, improved polymer flow, improved weld line strength, and to eliminate molded-in stresses, warp and sinks marks.

Endex 1020™ is intended for use in a wide variety of processes, including:

INJECTION MOLDING: cycle time reduction, sink marks, warp reduction, shrink control.

STRUCTURAL FOAM MOLDING (SFM): GAS COUNTER-PRESSURE SFM.

NITROGEN (SFM): void reduction, consistent part weights, higher impact strength.

GAS ASSIST, GAS INJECTION MOLDING: flow enhancement, sink elimination.

EXTRUSION: Sheet, Film, and Profiles.

Endex 1020™ use levels will vary with the application, but the following guidelines can be used as a starting point. Optimization for each application is recommended:

- Structural Foam Molding 2.0 – 3.0%
- Sink Mark Elimination 0.3 – 0.5%
- Nitrogen SFM, Gas Assist-injection 0.3 – 0.5%
- Extrusion and Blow Molding 0.5 – 1.0%

Endex 1020™ does not have to be dried with the resin used as long as the resin is dried according to the manufacturer's recommendations.

Endex 1020™ has many advantages for the plastics processor, including:

- Fine cell structure
- Shorter cycle times
- Faster extrusion
- Thick, smooth skins in SFM
- Fast degassing
- Fast painting and decorating
- No plate-out on molds
- Beryllium-copper compatible
- G.R.A.S. or FDA sanctioned ingredients

Endex 1020™ is available 50 lb cartons or 1000 lb boxes.

Contacting Endex International

Canada:

487 Westney Road South, Unit #8
Ajax, Ontario L1S 6W8
Phone: 905.686.4335
Fax: 905.686.6691

USA:

111 Main Street, Box 381
Kingston, Illinois, USA
60145
Phone: 815.784.2446
Fax: 815.784.6012

UK:

9 Abbey Close
Alcester, B49 5QW
Phone: 01 789 765762
Fax: 01 789 765572

You can also visit our website at: www.endexint.net or email us at info@endexint.net for more information.

Note: To the best of our knowledge, the above information is correct. Since the way these products may be used is beyond our control, no responsibility is accepted by Endex International, Inc. for any loss or expense arising from their use. No liability is accepted if use of these products infringes any patent.

© Copyright Reserved August 2006 by Endex International, Inc., 0704