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Development Team

Meeting - Feb 20, 2018

Beyond the Basics:

Creating Extrusions to

Meet Product

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Challenges Extrusion-I

Custom extruded plastic profiles - Valley

Extrusions Plastic

Extrusion Design Guide

Plastic Extrusion Design

Guidelines This design guide is not exhaustive; the amount of information available is simply too great.

However, it serves as a starting point to better understand the

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capabilities and

limitations of designing
extrusions. For

Engineers, By Engineers

Plastic Extrusion Design
Guide | Gemini Group,
Inc.

Extrusion Process

Plastic profile extrusion
is a molding method in
which plastic resin is
continuously melted,
pushed through a die

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with the desired cross-section (a “ profile ”), and then pulled through a water bath until fully cooled. The formed plastic can then be fabricated and either cut into multiple parts or wound as a single part.

GPI, Sierra Plastics, &
GPM PLASTIC
EXTRUSION
DESIGN GUIDE

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Please keep these basic guidelines in mind when considering the design of your custom plastic extrusion. **UNIFORM WALL.** Is important for uniform cooling. Helps avoid bowing and twisting. Produces better quality and tolerances. Improves line speed and efficiencies. **CORNER RADII.**

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Design Guidelines for Plastic Extrusions | Alliance ...

A Beginner's Guide to
Custom Plastic
Extrusion Design Even
Wall Thickness.

Wherever possible, your
custom plastic extrusion
needs an even wall
thickness throughout. ...

Avoid Detail In Hollow
Sections. Many custom
plastic extrusions are

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hollow (e.g. tubes) and are made using a vacuum... Mating ...

A Beginner's Guide to Custom Plastic Extrusion Design

Ideally, a good design guide would be to have the radius be equal to the wall thickness of the product. This contributes to smoother flow of material during

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extrusion, and less stress at the corners of the profile. Corner Radii – Minimum Inside and Recommended Outside Radii.

Design Considerations for Custom Plastic Extrusion ...

Design Guidelines 1.
Regular wall thickness
Always try to achieve an even wall thickness in

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your extrusion design.

Variations in thickness...

2. Limit detail in hollow profiles As thermoplastic extrusion is a continuous process, internal definition in hollow... 3.

Avoid hollows in hollows A hollow ...

Design Guidelines -

Condale Plastics

By contrast, our

Extrusion Guide Book

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(EGB) is intended to provide practical down to earth answers to questions posed by operators regarding the extrusion of thermoplastic materials.

Extrusion Guide Book | Plastics

Deep channels and ratios For profiles with channels (tongues), there is a basic rule that the

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height to width ratio should be approximately 3 to 1. This is best for an extrusion die and ensures that the strength of the die is not jeopardized. (example height .300 [7.62]x width .100 [2.54]) By using large radii at the opening of the channel, and a full radius at the bottom, the ratio can be increased to 4 to 1 but

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again the ratio is higher so expect more breakage.

A Simple Guide to Extrusion Designs - Elixir Ext

Types of Extrusion
Screws and their
Designs. The screw is an
essential component of a
plastic extrusion
machine. Through its
turning motion inside a

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tight fitting barrel, the screw conveys the plastic, melts it and forces it through a die.

These three steps are carried out in a continuous process capable of producing extrusions in a variety of lengths.

Types of Plastic
Extrusion Screw
Designs

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This set of hints and tips for plastics product designers is intended as a source book and an 'aide m é moire' for good design ideas and practices. It is a source book for plastics product designers at all levels but it is primarily aimed at:

- student designers carrying out design work for all levels of academic studies;

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Extrusion

Design Guides for Plastics - Tangram

Some basic guidelines in profile design minimize extrusion problems: Use generous internal and external radiuses on all corners; the smallest possible radius is about .5 mm. Maintain uniform wall thickness (important!). Make walls no thicker than 4 mm.

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Tooling Corner: Die
design for extrusion |
plasticstoday.com

The first simple and practical guide for extrusion people everywhere — since 1983, and updated (almost) every year — the basic facts of extrusion packed into a convenient illustrated 80-page booklet, small

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enough to carry with you, no long explanations, yet complete enough to teach you how an extruder works, in clear, readable language.

Extrusion Manual – Griffex

The 24-page design guide provides information on Insert design, plastics

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Characteristics, and design guidelines for a broad set of applications.

Dimensional data is provided for the full range of SPIROL

Heat/Ultrasonic, Molded-in, Press-in, Expansion, and Self-tapping Inserts.

Installation technology is also reviewed. (read more)

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Plastic Extrusion Design
Guide | Products &
Suppliers ...

Plastic Extrusion
Services – Guidelines.
As a designer or
engineer, you should be
aware of the advantages
of working with
Lakeland Plastics as well
as be knowledgeable of
the plastic extrusion
services guidelines that

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will help make your project a success. An endless variety of items, such as profiles, rods, tube and other shapes can be produced by continuous extrusion which may be too costly to produce by other manufacturing methods.

Plastic Extrusion
Services Guidelines -
Lakeland Plastics

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In the extrusion process, it is typical to take thermoplastic materials in pellet or powder form, heat that material using electrical heat or frictional heat in an extruder until it is at least in a plastic state and then continuously push the material through a die that has openings that shape the

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Designing Extruded Plastic Profiles #0018

A common measurement of an extrusion profile is its circumscribing circle diameter (CCD)—the diameter of the smallest circle that entirely encloses an extrusion cross-section. Most common profiles are less than 8 " in diameter, but a few extruders are

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capable of producing extrusions with a larger CCD, some as large as 18 " .

Aluminum Extrusion

Design Product

Designers Guide to ...

The Plastic Extrusion
Process Simplified:

Plastic extrusion is a
high-volume
manufacturing process
in which raw plastic

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material, usually in the form of pellets called resin, is melted and formed into a continuous profile. Extrusion produces items such as pipe/tubing, custom profiles, and plastic sheeting. Our company uses plastic extruders to create many different products for our suppliers.

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Stock and Custom

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Extrusions - SeaGate ...

Polymer response or behavior in the extruder, combined with the extruder processing conditions, i.e. barrel temperatures, screw speed, and screw design, allows the extruder to extrude a homogeneous polymer melt at a

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constant pressure and
temperature. Select 5 -
Screw Design Book
chapter Full text access
5 - Screw Design

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