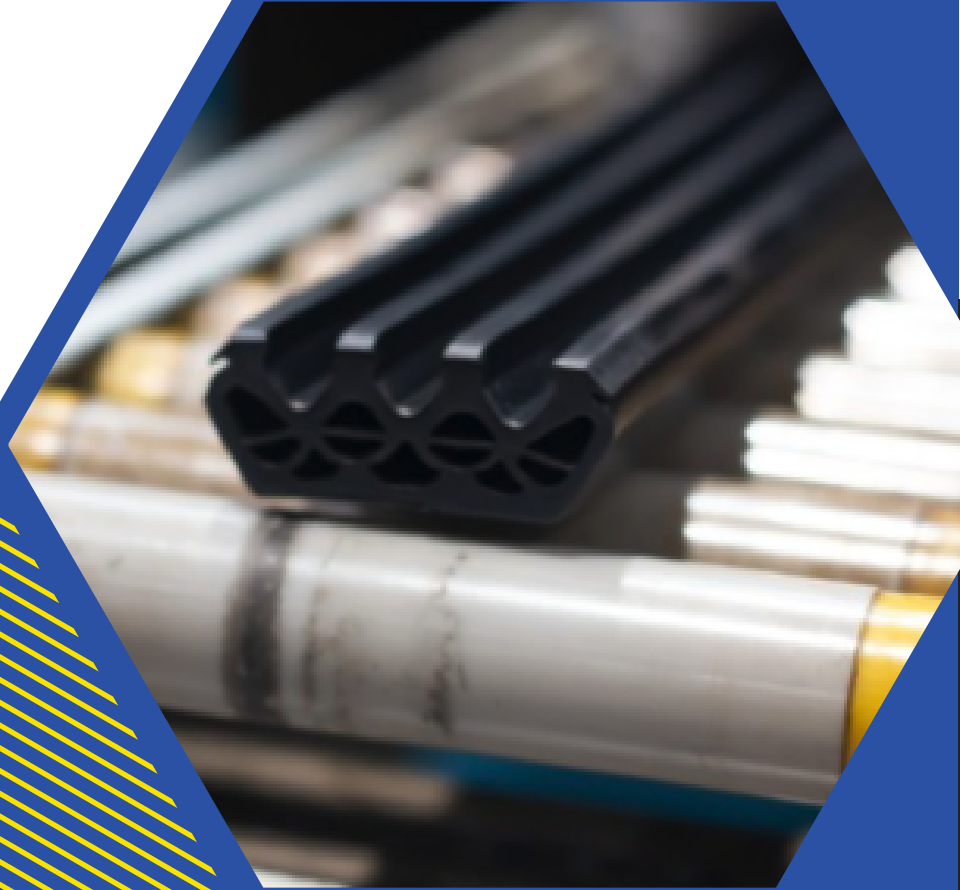




**CUSTOM
PROFILES
INCORPORATED**



2021

Materials Guide

Shaping the new standard in thermoplastic extrusions

We're Custom Profiles, Inc., a U.S. manufacturer of thermoplastic extrusions. If you're looking for a partner that goes the extra mile for quality and precision in your window and door components, look no further. We'll do whatever it takes to make your ideas take shape.

The Custom Profiles Difference

Our team of experts is dedicated to making both your extrusion process and your experience working with us as smooth as possible. Here are a few ways we make that happen.

Material Selection

The proper material selection is essential to a quality job and parts that last. Our team can advise you in selecting the perfect resin for your application—whether your goal is to enhance specifications, save costs, or enhance sustainability.

Design for Manufacturability

Thermoplastic extrusion requires design expertise to ensure your process yields perfect parts. Our engineers can collaborate directly with your team to ensure that your designs are optimized for manufacturability.

Quality Control

We've created rigorous, yet flexible quality control processes to bring you ultimate confidence in the parts you trust our team to produce on your behalf. We can adjust our methods to fit your needs—whether you need specific measurements, testing against mating parts, or other special requirements.

Your Challenges, Solved

We know that you place a lot of trust in your contract manufacturer. The integrity of your brand relies on the quality of parts we produce and the time it takes to deliver. Here's how we do things a little differently than other extrusion suppliers you may encounter.

Other Extrusion Suppliers...

- Go from print to design without considering manufacturability
- Require you to invest in (and wait for) specialized tooling to complete complex jobs
- May not let you connect directly with an engineer or other process expert

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At Custom Profiles, we...

- Ensure your prints are optimized for extrusion to yield in-spec results
- Use our in-house resources whenever possible to reduce turnaround time and maintain your budget
- Encourage open communication between your technical team and ours

Thermoplastic Materials

We partner with leading resin manufacturers and recyclers to bring you a wide variety of materials that cover a broad range of applications.

General Purpose Plastic Materials

Rigid Vinyl

RPVC
Polyvinyl Chloride

Flexible Vinyl

FPVC
Polyvinyl Chloride

Polypropylene

PP/Homopolymer
Copolymer

Polyethylene

PE
HDPE
LDPE
LLDPE

Polystyrene

HIPS
GPPS
CPS

Engineered Resins & Specialty Materials

Noryl®

PPO
PPE

Lexan®

PC (Polycarbonate)

Geloy®

ASA (Acrylic-Styrene-Acrylonitrile)

Radel A

Polyethersulfone

Polybutene

Polybutene-1

Nylon

Polyamide

ABS (Acrylonitrile Butadiene Styrene)

Xenoy®

PC/PBT Alloy

Thermoplastic Rubbers & Elastomers

Extrusion and Value-Added Services

If your parts have complex requirements or your previous supplier struggled to get it right, we can help. Our plastics and engineering experts provide expert consultation to set your job up for success before and after production.

Value Engineering

Looking to make your finished parts more cost effective? We can help you select budget-friendly materials that will fulfill your job's requirements.

Dual-Durometer and Tri-Extrusion

This process allows us to combine multiple materials in one extrusion process for weatherstripping, gaskets, and other components that require more than one material.

Design & Tooling

Our team of engineers can give your drawings a second look and make any necessary modifications to ensure optimal manufacturability.

Embossing

We help your brand make its mark by raising your product's texture to create a design on it.

Custom Packaging and Fulfillment

We know that packaging plays a crucial role in helping you meet your turnaround times. We can pack your parts according to your requirements to help your process run smoothly.

Testing and Compliance

We flex our already rigorous quality control process to provide the documentation you need to satisfy regulatory requirements. We can also perform testing with your specific mating parts to verify the performance of your end product.

Miter Cutting

A miter cut is an angled cut on top of two structures that allows them to join together and make a corner, or a miter joint to bring the jamb and head together on a window or door. We perform this in-house to ensure proper fit and to save you steps in your process.

Ready to get started?

Connect with a Custom Profiles expert today to discuss your challenges.

 229-423-2929

 info@customprofiles.com

