



## Material Selection Guide

Our extrusion selection is produced in a wide range of sizes and shapes in both rigid and flexible custom plastic profiles, rods and tubes. Materials are available in natural, clear, translucent, transparent, fluorescent and custom colors. We can manufacture to your specifications and/or assist in the design and material recommendations to specific applications.

*The following list are some examples of our manufacturing materials:\**

### ABS (Acrylonitrile Butadiene Styrene):

*Features/Benefits:* Good low temperature properties, good chemical resistance, flame retardant.

### Acrylics:

*Example Brands:* Acrylite®, Lucite International, Cyro Industries, Plaskolite, Arkema

*Features/Benefits:* Age resistant, impact strength, low deformation, clarity, UV light resistant.

### Flexible Polyvinyl Chloride (PVC):

*Example Brands:* AlphaGary, Teknor Apex, Geon, Georgia Gulf, Unichem

*Features/Benefits:* Flexible, chemical and weather resistance, lightweight, FDA 21 CFR Compounds and NSF-listed, wide range of durometers, hardness.

### Nylons:

*Types Available:* 6/6, 11 & 12

*Features/Benefits:* Natural, black or custom colors, semi-flexible, moisture absorption resistant, high pressures, excellent weather resistance, low moisture absorption.

### Polycarbonate:

*Example Brands:* Lexan®

*Features/Benefits:* High clarity, high impact, high rigidity, good UV.

### Polyolefins:

*Example Brands:* Huntsman, DuPont™, Chevron Chemical, Eastman Chemical, Equistar Chemical, Westlake Chemical and PolyOne™

*Features/Benefits:* Chemical resistance, light-weight, high and low temperature range, ease of fabrication and formability, FDA 21 CFR Compounds, NSF-listed and durable.

- Linear Low Density Polyethylene (LLDPE)
- Low Density Polyethylene (LDPE)
- High Density Polyethylene (HDPE)
- Polypropylene
- Homopolymer
- Copolymer

### Polystyrenes:

General purpose high impact styrene

*Example Brands:* Bayer, Dow® Plastics

*Features/Benefits:* Impact strength, chemically inert, machine-ability, non-toxicity, toughness, mechanical properties.

### Polyurethanes:

General purpose (ether or ester base)

*Example Brands:* BASF, Dow® Plastics

*Features/Benefits:* Abrasion resistance, wide range of durometer hardness, high and low temperature, lubricant/fuel/oil/grease resistance.

### Rigid Polyvinyl Chloride (PVC):

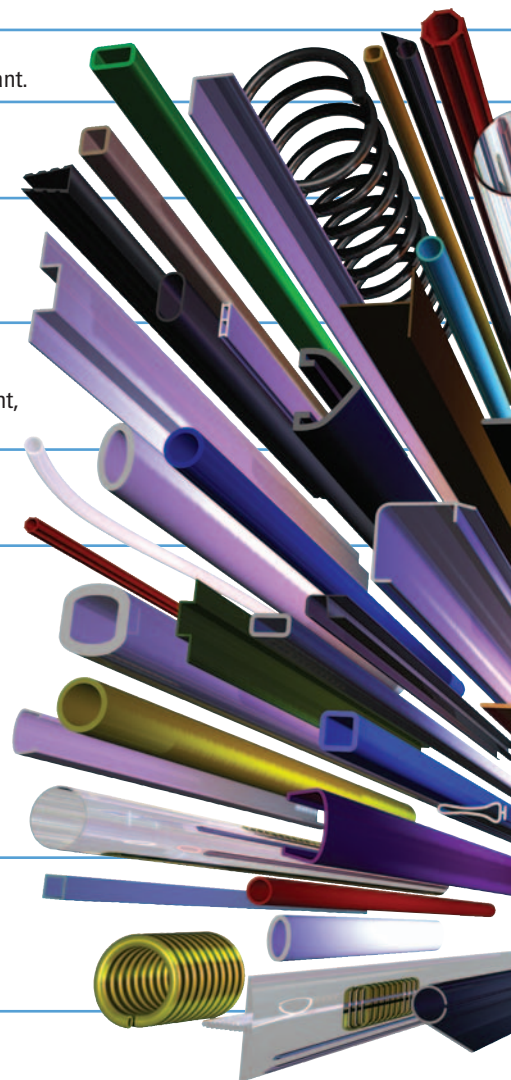
*Example Brands:* AlphaGary, Teknor Apex, Georgia Gulf, Geon, Unichem

### Thermoplastic Elastomers (TPE):

*Example Brands:* Santoprene®, DuPont™ Hytrel®, Kraton

*Features/Benefits:* UV/Ozone resistance, chemically compatible, weather resistance, high and low temperature range, resists abrasion.

\* The above list is not all-inclusive, for other material specifications please contact us.



**To fulfill your requirements with high quality and cost effective plastic extrusions: call, fax or email your request.**

**Universal Plastics, Inc.**  
2650 East 40th Avenue • Denver, Colorado 80205  
Phone: 1-866-742-7148 • Fax: 303-322-3945  
Email: [sales@universalplasticsinc.com](mailto:sales@universalplasticsinc.com)  
[www.universalplasticsinc.com](http://www.universalplasticsinc.com)