



Thermoplastic Extrusion Capabilities

Bulletin #S-18

MATERIALS:

- Presently Stocked Materials: Acrylonitrile-Butadiene-Styrene (ABS), Butyrate, Nylon 12, Polyethylene (LDPE, HDPE), (Polyamide) Nylon, High Impact Styrene (HIPS), Polypropylene (PP) Homopolymer, Polypropylene (PP) Copolymer, Polycarbonate (PC), Polystyrene (PS)
- Material Capabilities: Instead of listing all of the materials we are capable of extruding, these are materials we elected not to consider processing: Fluoropolymers, like Teflon, Tefzel and PVDF, and PVC. Basically we are *capable* of processing any thermoplastic that does not fall into families of the above materials.

DIMENSIONAL CAPABILITIES:

General guidelines of dimensional capabilities are as follows:

Maximum O.D. = 1.750"
Maximum Wall = 0.750"
Cut Length = 0.250" to 5000'

Minimum I.D. = 0.100"
Minimum Wall = 0.006"

TYPICAL TOLERANCES:

I.D. and O.D. = +/- 0.002"
Cut Length = +/- 0.010"

Wall Thickness = +/- 0.001"

Note: Extruded tube sizes may vary with material and application.

SPECIAL CAPABILITIES:

- Plastic extrusions are available clear or in colors; depends on material.
- Some extruded tubing available in continuous lengths, in reel form, up to 5,000 ft.
- Extruded tubing is available with heat formed-ends (flat, rolled, etc.), depending upon material.

GENERAL COMMENTS:

Please note that while the machines are capable of extruding many materials and sizes, there must still be some development time allocated to produce the tooling and define process parameters to achieve a cost-effective custom product.

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Note: This material property information is the best currently available on the subject. The data should be viewed as a general guide to tube and material properties, not a performance guarantee. The customer should examine the suitability of the finished product for individual applications.

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