

A METHOD FOR DESIGNING A PROFILE
EXTRUSION DIE PLATE

ABSTRACT

5 The present invention discloses a method for
designing a profile extrusion die for shaping a
polymer resin material into a profile having a
plurality of sections. In the present invention, a
plurality of operating conditions for shaping the
resin material into the profile are determined. The
10 dimensions of each of the plurality of sections of the
profile are then specified. The profile dimensions
include width and thickness. Extrusion information
for the polymer resin including die swell/drawdown and
flow balance is obtained. Die dimensions for shaping
15 the profile in accordance with the operating
conditions, the profile dimensions, and the extrusion
information are then determined.

FIGURE 5

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