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Profile Die Design

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Profile Die Design
Vol. 27 #1, March 2000


Good profile die design starts with an understanding of the rheology (study of melt flow) of the thermoplastic that will ultimately be used to extrude product from the profile die. Two key factors that one must study are die swell (actually the swell of the thermoplastic as it exits the die lip) and land length ratio (the length of steel that runs parallel to the melt path). Material suppliers will share the shear/stress curves for predictability of a thermoplastic at a given rate.

- Dan Cykana, Bemis Mfg. Co.

See also:

- [Rheology](#)
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