



Navigation



Extrusion 1-0-Wiki Pages

- [Main Page](#)
- [Best Papers](#)
- [Book Reviews](#)
- [Consultants Corner](#)
- [Extruder Software](#)
- [Extrusion Hints](#)
- [Safety](#)
- [Shop Tools](#)
- [Sponsors](#)
- [Technical Articles](#)

Search the Wiki


»

Viewing/Creating

- [Random Page](#)
- [Create a new Page](#)
- [All Pages](#)
- [Categories](#)

Account Management

- [Login/Logout](#)
- [Language Selection](#)
- [Your Profile](#)
- [Create Account](#)

Administration


- [Administration](#)
- [File Management](#)

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Acquisition Rates

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(10) » [Going out of Specification](#) » [Material Properties and Your Material Handling System](#) » [Acquisition Rates](#)

Meaningful analysis of extrusion data requires acquisition rates dependent upon the location of the transducer and the speed of the extruder. A recording device in the 30Hz through 50HZ (or higher data rates), allows for adequate analysis in the most difficult situations (along the barrel). Measuring the pressure and temperature after the extruder (in the die adapter or the die itself), does not require the high data acquisition rates needed along the barrel, with 5-10Hz being completely adequate. The data points obtained using 1Hz and 2.5Hz acquisition rates would not clearly capture the actual sawtooth trace.

- Edward L. Steward (from ANTEC 1998)

Return to [Extrusion Hints](#)

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