

# Pyrometers

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Vol. 22 #1, May 1995

A pyrometer with a surface contact probe and a melt probe is essential to trouble-shooting an extrusion system. The contact probe can be used to check for heater burnout, heat flow and temperature balance. The melt probe can be used to check melt thermocouple accuracy and also to check the actual melt temperature as it exits the die. Die exit temperature is often much higher than the melt probe temperature which is usually indicated near the screw discharge and is influenced by adaptor metal temperature. No extrusion shop should be without a pyrometer in working order.

- J. Frankland, New Castle Industries

See also:

- Effect of temperature
- Interfacial instabilities during coextrusion of LDPEs
- IR temperature probes
- Process uniformity
- Temperature control
- Thermocouple depth
- 30/30 melt temperature measuring method
- Troubleshooting polymer processing operations
- Troubleshooting tools

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