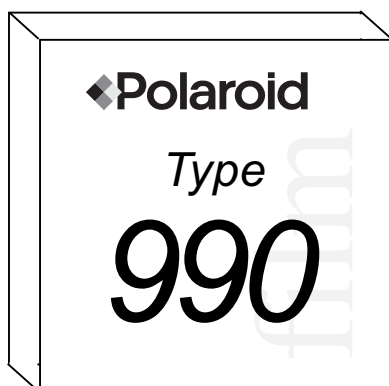


**Film Data Sheet**  
**T-990**  
**Integral Color Print Film**



**Film Speed**

ISO 640/DIN 29

**Format**

4 x 4<sup>1</sup>/<sub>8</sub> in. (10.2 x 10.5 cm)

**Image Area**

3<sup>5</sup>/<sub>8</sub> x 2<sup>7</sup>/<sub>8</sub> in. (9.2 x 7.3 cm)

**Finish**

Glossy

**Exposures per Unit**

10 exposures per pack

**Development Time**

2 minutes approximately

**Description**

General-purpose, high-speed, medium-contrast, integral film for high definition instant color prints. It is balanced for daylight and electronic flash exposure.

**Key Applications**

- Insurance photography
- Site & construction documentation
- Healthcare documentation
- Law enforcement (domestic violence, child abuse, others)
- Jewelry documentation
- Medical imaging (clinical documentation)
- Manufacturing (ISO 9000 documentation)

**Compatible Hardware**

- Spectra AF, Spectra 2, Spectra Pro
- Spectra Law Enforcement Kit
- Jewelry Pro
- HealthCam
- ProCam
- Image, Image 2, Image Elite
- Minolta Pro
- Macro 5 SLR

**Special Treatment**

None

**Alternative product**

Spectra HD Grid (with grid lines)

**Caution**

This film uses a small amount of caustic paste. If any paste appears, avoid contact with skin, eyes and mouth and keep away from children and animals. **If you get some paste on your skin, wipe it off immediately, then wash with water to avoid an alkali burn.** If eye contact occurs, quickly wash the area with plenty of water and see a doctor. Do not cut or take apart pictures or battery. Do not burn battery or allow metal to touch terminals.

**Limited Warranty**

See information on the film box.

"Polaroid", "Spectra", "Jewelry Pro", "HealthCam", "ProCam", "Image", and "Polaroid Macro 5 SLR" are trademarks of Polaroid Corporation, Waltham, MA 02451 USA. All other product names may be the property of their respective owners.



The information in this data sheet represents the typical performance of Polaroid's Spectra film family. However, there may be some variation between film lots.

**Recommended speed:**  
ISO/DIN 640/29<sup>0</sup>

**Recommended processing time and temperature:**  
Approximately 3 minutes  
at 70°F/21°C

**Balance:**  
Daylight and electronic  
flash (5500°K)

**Contrast:**  
Medium

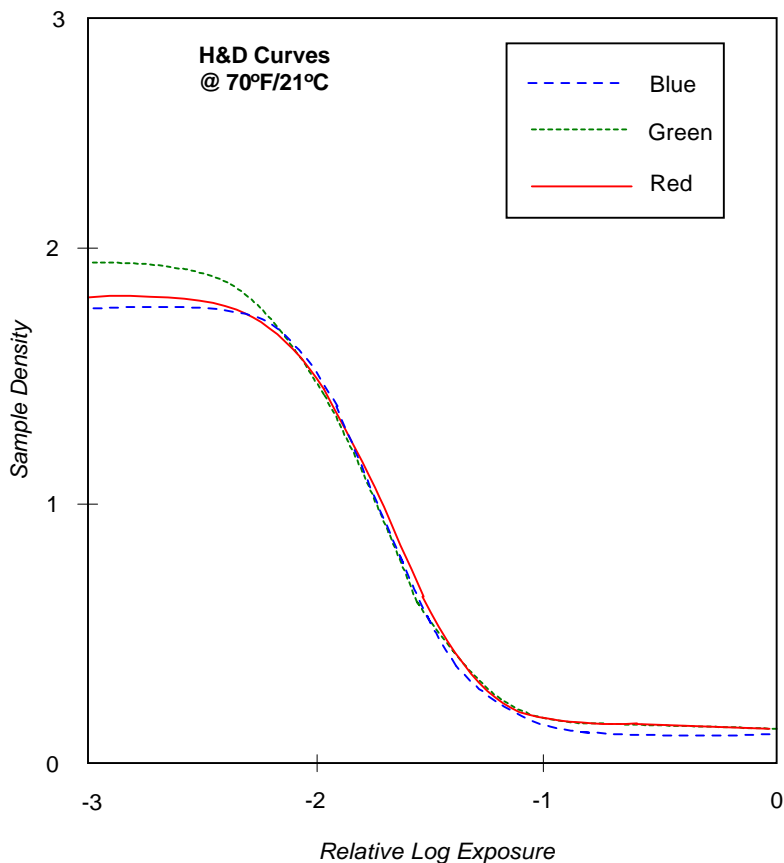
**Resolution (1000:1):**  
7-10 line pairs/mm

**D-Max:** The density value for the film's darkest black.

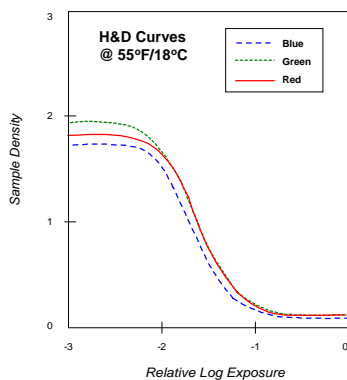
**D-Min:** The lowest density value that a film exhibits. In prints, the whiteness of the brightest highlight, relative to the unprocessed print.

**Slope:** The positive ratio of the log E increments of the straight line region of the curve, as determined by the 1/4-3/4 increment method. The slope of an H&D curve indicates the overall contrast of a film: low contrast slopes less than 1.10; medium contrast slopes from 1.10 to 1.70; high contrast slopes greater than 1.70.

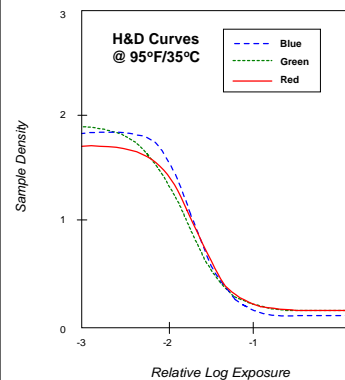
Characteristic H&D curve for normal development



Characteristic H&D curve for cold development



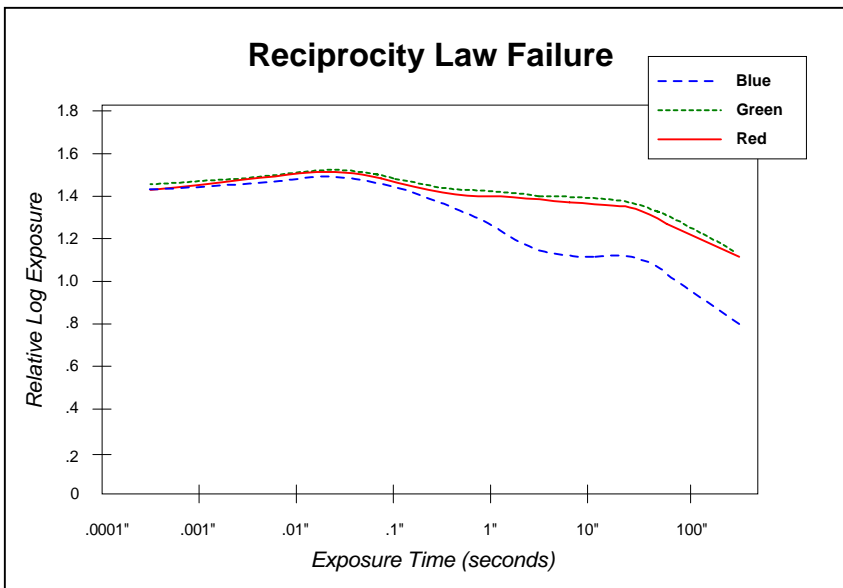
Characteristic H&D curve for hot development



## Spectra Film Family

### Reciprocity law failure

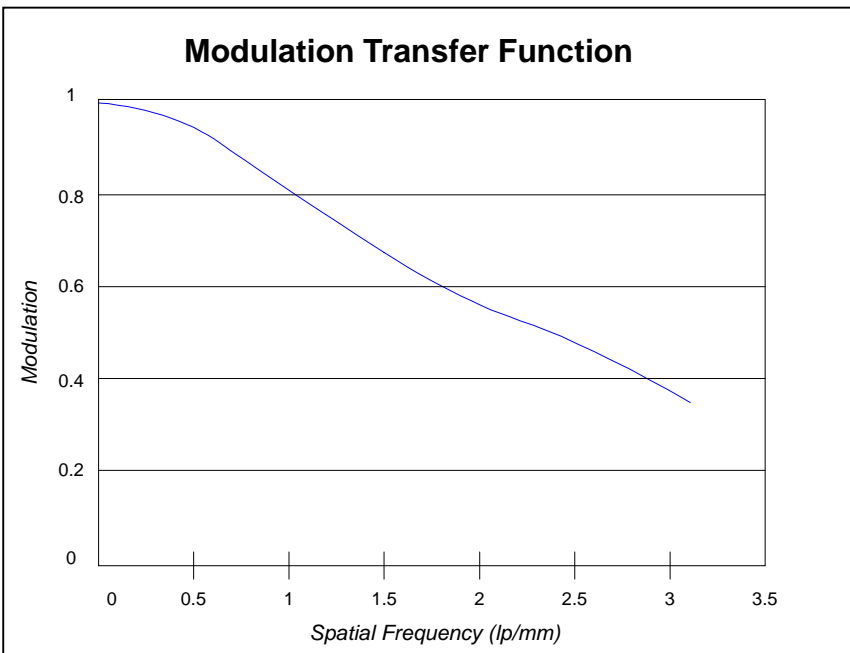
A wide range of shutter speeds can be used without loss of film speed or requirements for color filtration. For longer exposure times, some exposure compensation and filtration is suggested.



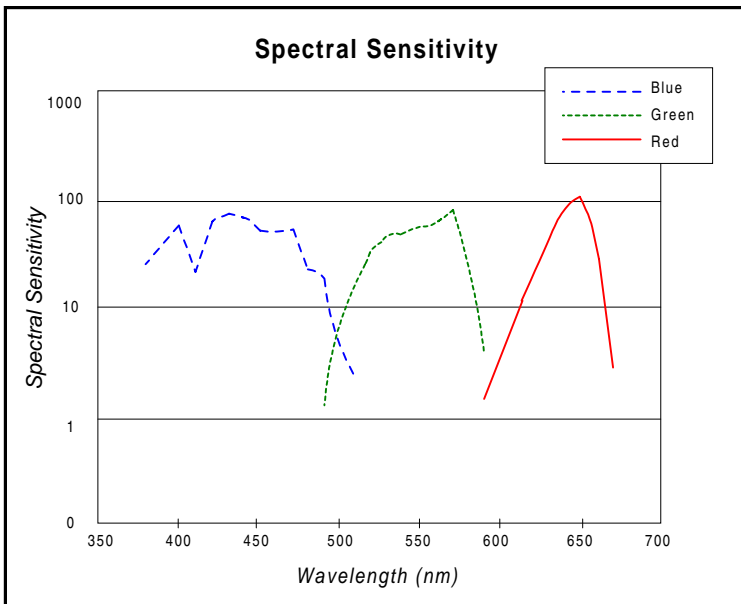
### Reciprocity

The ability of the film to respond in a constant manner to a constant exposure (light intensity x time).

Reciprocity failure occurs during very long or very short exposures, requiring the photographer to increase exposure.



## Spectra Film Family



**Spectral Sensitivity:** Shows the equivalent energy needed at each wavelength in order to activate the emulsion so that it produces a neutral density of .75.

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