

**Film Data Sheet**  
**Polacolor 559**  
**4 x 5 Pack Film**



**Film Speed**  
ISO 80/DIN 20

**Format**  
4 x 5 in. (10.2 x 12.7 cm)  
Pack Film

**Image Area**  
3<sup>1</sup>/<sub>2</sub> x 4<sup>5</sup>/<sub>8</sub> in. (9 x 11.7 cm)

**Finish**  
Glossy

**Exposures per Unit**  
10 exposures per pack

**Development Time**  
60 seconds at 70°F

**Description**

Medium-contrast, medium-speed, daylight (5500°K), (electronic flash) balanced color print film with extended dynamic range.

**Key Applications**

- Professional photography (proofing)
- Copystand photography
- Microscopy
- Scientific imaging
- Image or Emulsion Transfer

**Compatible Hardware**

- Any instrument or camera equipped with a Model 550 Film Holder
- MP-4+ Camera

**Special Treatment**

None

**Reciprocity Performance**

The reciprocity characteristics of the film cause a color shift towards blue-cyan when the exposure time is increased and a color shift towards red-yellow when the exposure is decreased. The film is balanced for average daylight (5500°K) at <sup>1</sup>/<sub>125</sub> of a second (as well as for electronic flash units). Recommended filtration at other exposure times and with other illuminants is indicated on information packaged with the film.

**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. Keep discarded materials away from children, animals, clothing and furniture.

**Limited Warranty**

See information on the film box.

Film Data Sheet  
 Technical Data

T-88, T-108, T-669 and T-669S (pack); T-559 and T-559S (4x5 pack); T-59 (4x5 sheet) and T-809 (8x10 sheet) Instant Color Peel-Apart Films



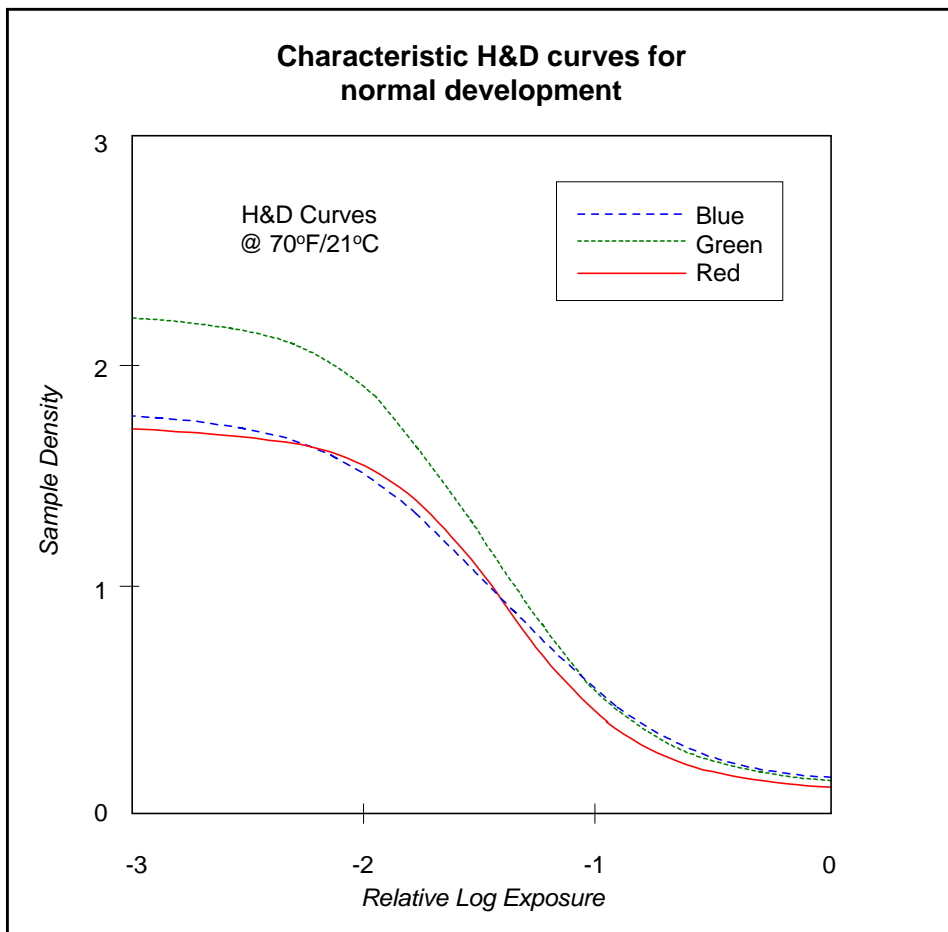
The information in this data sheet represents the typical performance of Polaroid's T-88, T-108, T-669, T-669S, T-559, T-559S, T-59 and T-809 color films. Specific film lots may vary.

Recommended speed (ISO)	80 / 20°
Recommended processing time and temperature	60 sec. at 70°F/21°C
Resolution (1000:1)	9 line pairs/mm
Contrast	medium

**Processing time and temperature**

For best results process at temperatures above 60°F(16°C).

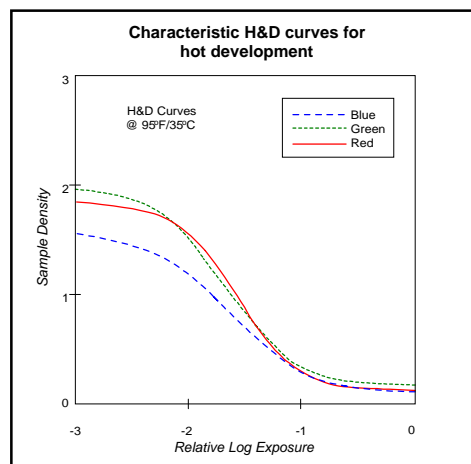
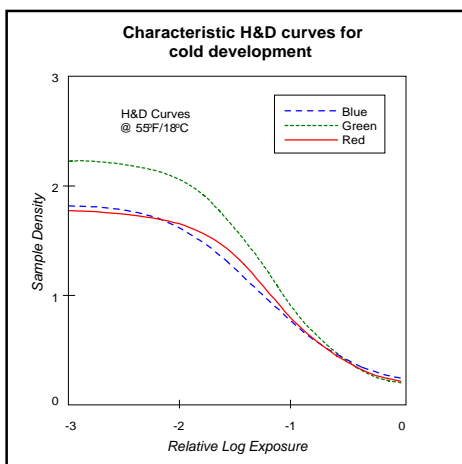
°F	°C	Time in seconds	Exposure adjustment
90	32	60	-1/2 stop
75	24	60	None
70	21	60	None
65	18	75	+1/2 stop
55	13	90	+1 stop



**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.



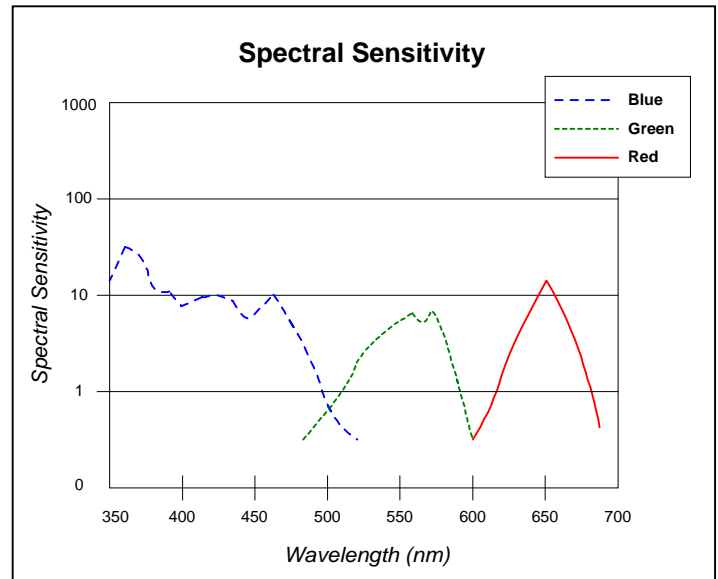
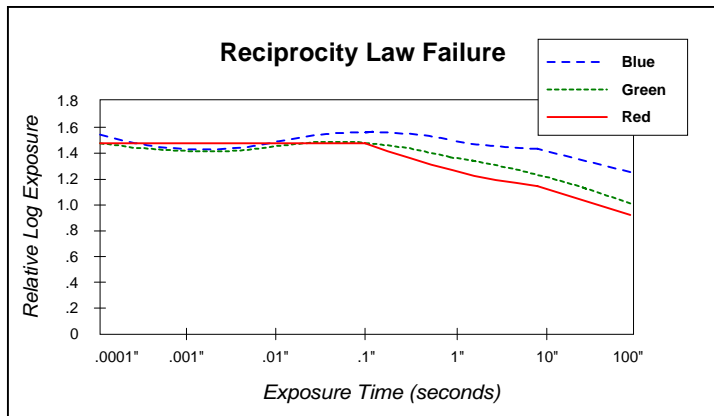
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**Reciprocity law failure**

A wide range of shutter speeds can be used without loss of film speed. For longer exposure times, some exposure compensation is suggested.



**Light sources and filters**

Light source	Indicated exposure time (sec.)	Filtration	Effective film speed (ISO)*
Daylight (5500°K)	1/3000**	CC10C	64/19
	1.1000**	None	80/20
	1/125	None	80/20
	1/3	CC10R	64/19
	1/8	CC30R	50/18
	1/4	CC30R+CC10Y	40/17
	1	CC40R+CC10Y	25/15
Tungsten/Halogen (3200-3400°K)	1/8	CC60B	12/12
	1	CC50B	10/11
	5	CC40B	8/10
	10	CC40B	8/10
	30	CC30B	8/10
MP-4 Tungsten (2800°K)	1/8	CC60B	12/12
	1	CC50B	10/11
	5	CC40B	8/10
	10	CC40B	8/10
	30	CC30B	8/10
Tungsten microscope illuminator (3200°K)	0.125	CC50B	12/12
	1	CC40B	12/12
	5	CC30M	12/12
	10	CC20M	12/12

**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.

**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.

\* Recommended meter setting (compensates for reciprocity effects and filter factors)

\*\* With electronic flash