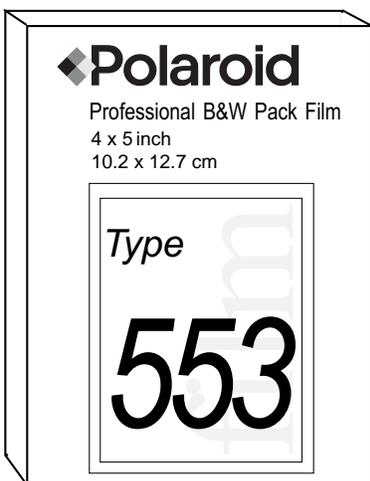


**Film Data Sheet**  
**T-553**  
**4 x 5 Black & White Pack Film**



**Film Speed**

ISO 800/DIN 30

**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.

**Finish**

Glossy

**Exposures per Unit**

10 exposures per pack

**Development Time**

45 seconds at 70°F

**Description**

Medium-contrast 4 x 5 sheet film for detailed black & white prints. Coaterless, wide tonal range for excellent highlight and shadow detail.

**Key Applications**

- SEM imaging
- Microscope imaging
- Test shots
- Copystand photography

**Compatible Hardware**

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

**Special Treatment**

Processing the film for longer than 3 minutes may affect image contrast and density to some extent. For optimum image stability at temperatures above 75°F (24°C), film should not be processed for longer than one (1) minute. At colder temperatures, process the film for a longer time as indicated in the film instructions. A picture processed for too short a time will have dull grays, mottle and little contrast. However, if more contrast is required, the processing time may be extended by 15 seconds (for example, process for 60 seconds rather than 45 seconds). This may increase the contrast and density, but may also result in some loss of gray.

**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.

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# Film Data Sheet

## Technical Data

**T-53 (4x5 sheet), T-553 (4x5 pack) and T-803 (8x10 sheet) - B&W High Speed Instant Peel-Apart Coaterless Film**



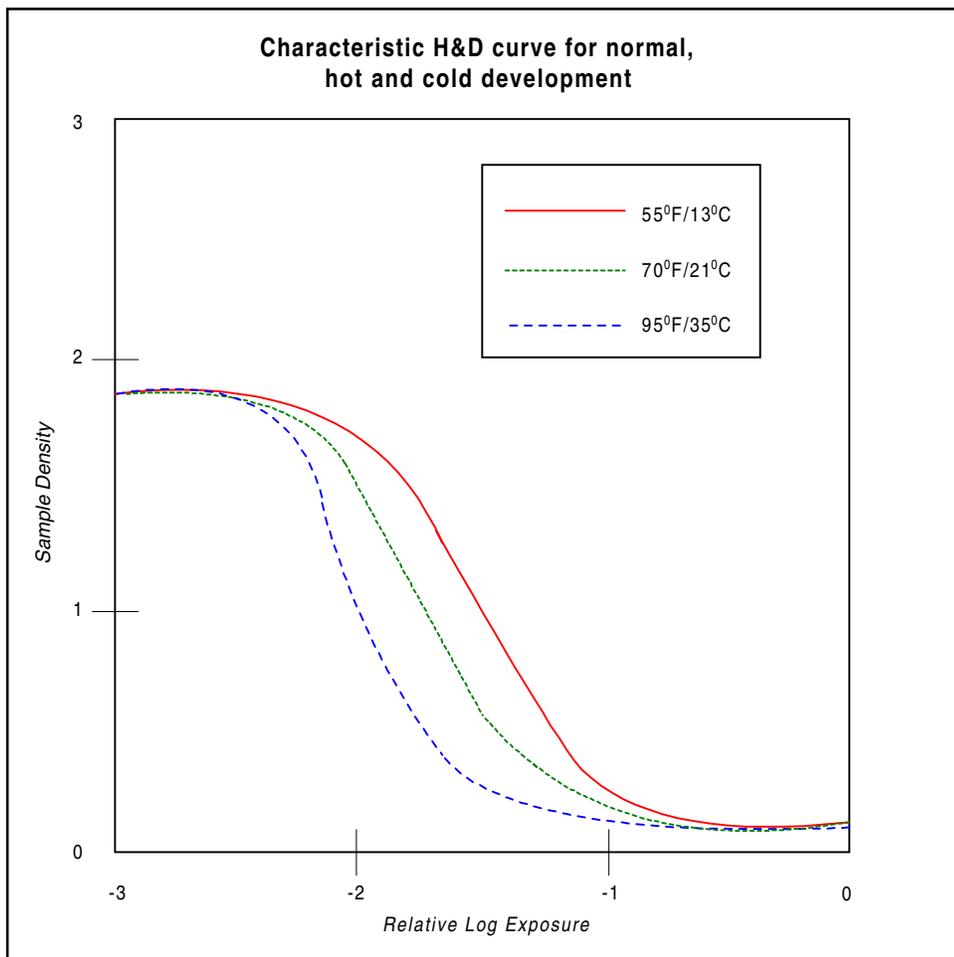
The information in this data sheet represents the typical performance of Polaroid's T-53, T-553 and T-803 black and white high speed films. Specific film lots may vary.

|   |                       |
|---|-----------------------|
| <b>Recommended speed (ISO)</b>                  | 800/30°               |
| <b>Recommended processing time at 70°F/21°C</b> | 45 seconds            |
| <b>Spectral sensitivity</b>                     | Panchromatic          |
| <b>Resolution (1000:1)</b>                      | 12 - 15 line pairs/mm |
| <b>Contrast</b>                                 | Medium                |

### Processing time and temperature

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

| °F | °C | Time in seconds | Exposure Adjustment |
|----|----|-----------------|---------------------|
| 95 | 35 | 30              | -1/3 stop           |
| 90 | 32 | 30              | None                |
| 75 | 24 | 30              | None                |
| 70 | 21 | 45              | None                |
| 65 | 18 | 60              | None                |
| 55 | 13 | 85              | 1/3 stop            |



At 71°F/21°C: D-Max = 1.75 D-Min = .11 Slope = 1.64

### Filter factors

|                                   | Filter no.                          | 6   | 8   | 15    | 25    | 47    | 58    |
|-----------------------------------|-------------------------------------|-----|-----|-------|-------|-------|-------|
| Light source at 3200°K - Tungsten | Aperture adjustment (f-stops)       | 1/3 | 1/2 | 2/3   | 1 1/2 | 3 1/2 | 3 1/2 |
|                                   | Filter factor (exposure multiplier) | 1.3 | 1.4 | 1.6   | 2.8   | 11.2  | 11.2  |
| Light source at 5500°K - Daylight | Aperture adjustment (f-stops)       | 2/3 | 1   | 1 1/3 | 2 1/2 | 2 2/3 | 3 1/3 |
|                                   | Filter factor (exposure multiplier) | 1.6 | 2   | 2.5   | 5.6   | 6.3   | 10    |

**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.

# Film Data Sheet

## Technical Data

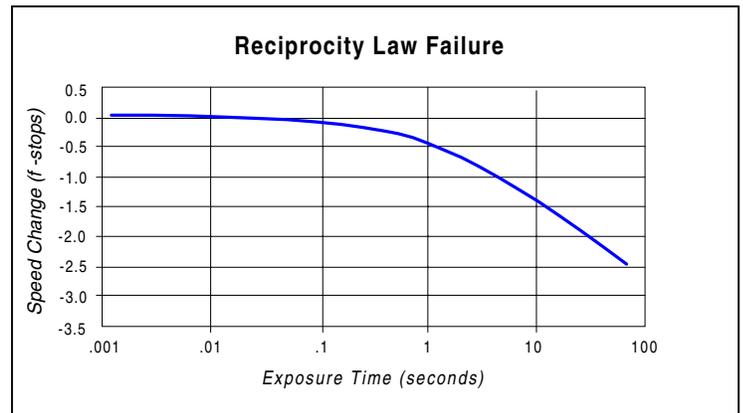
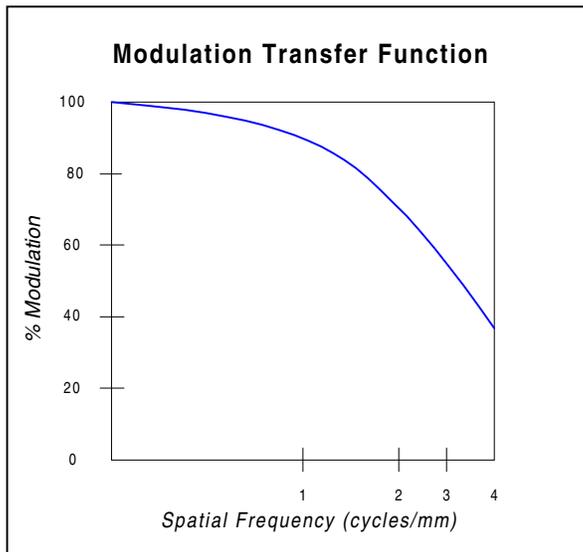
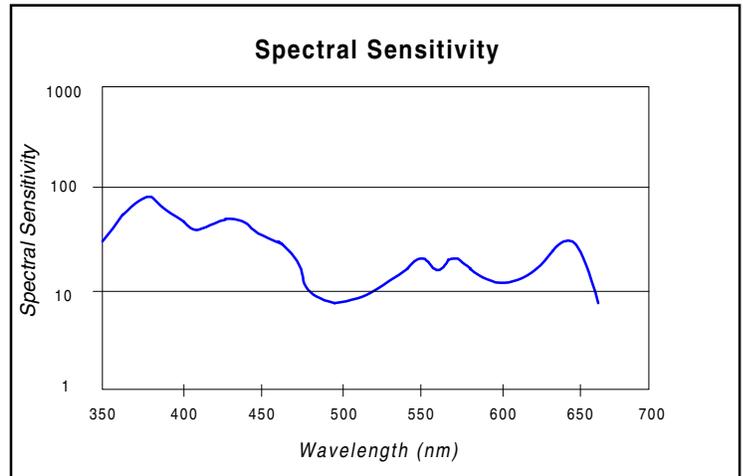
**T-53 (4x5 sheet), T-553 (4x5 pack) and  
T-803 (8x10 sheet) - B&W High Speed Instant  
Peel-Apart Coaterless Film**



### 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.

| Indicated exposure time (sec.) | Adjust aperture or time |                         |
|--------------------------------|-------------------------|-------------------------|
|                                | Aperture                | Corrected exposure time |
| 1/1000-1/10                    | None                    | Same                    |
| 1                              | +1/3 stop               | 1 1/2 sec.              |
| 3                              | +2/3 stop               | 7 sec.                  |
| 10                             | +1 stop                 | 25 sec.                 |
| 30                             | +1 1/3 stop             | 85 sec.                 |
| 100                            | +1 2/3 stop             | 450 sec.                |



### Speed variation relative to color temperature

| 3200°K    | 4800°K | 5500°K | 6500°K | 7500°K    | 10,000°K  |
|-----------|--------|--------|--------|-----------|-----------|
| -1/3 stop | -      | -      | -      | +1/3 stop | +1/3 stop |

**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.