Incorporating Fujifilm’s proprietary grain and coupler technologies, ETERNA Vivid 160, a tungsten-type E.I. 160 film, delivers high color saturation and high contrast without sacrificing exceptionally enhanced image sharpness.

All Fujifilm ETERNA films are characterized by their ability to reproduce natural skin tones and grays from under- to over-exposed conditions. In addition to these characteristics, ETERNA Vivid 160 is designed with high contrast and high color saturation, enabling it to reproduce crisp images, intense, vibrant and translucent colors, and deep rich blacks, enabling a wide range of expressive dramatic effects.

Optimization of orange mask density and sharpness balance contribute to enhanced image quality for film scanning or direct telecine transfer of images from negative film to videotape, making this newest addition to the ETERNA lineup well suited for commercials and other motion picture productions using the latest advanced digital technologies.
**ETERNA Vivid 160 Features**

**High color saturation**
An evolved version of ETERNA series’ Super Efficient DIR-Coupler Technology promotes adhesion and separation of colors, creating a rich, vibrant, and translucent color palette.

![Lab chromaticity chart (Macbeth chart RGBYMC)](chart1)

ETERNA Vivid 160 is characterized by a rich, highly saturated palette.

**Excellent image sharpness**
The performance parameters of the proprietary technologies developed for the ETERNA family of motion picture color negative films have been optimized, achieving exceptional sharpness. High contrast and highly saturated color boosts image sharpness, creating motion picture images with exceptional depth and dimension.

![Contrast transfer function (CTF)](chart2)

ETERNA Vivid 160 delivers the same contrast as F-125.

**High contrast**
Compared to the other Fujifilm ETERNA motion picture color negative films, ETERNA Vivid 160 is characterized by high contrast. Combined with a highly saturated color palette, the result is rich, vivid colors and crisp, deep blacks desired for today’s theatrical films.

![Characteristic curves](chart3)

ETERNA Vivid 160 improves R color balance in the over-exposure range of F-125.
Enhanced telecine characteristics
Enhanced linear response and excellent color balance minimize the need for color adjustment during telecine transfer. Optimization of orange mask density and sharpness balance results in improved scanning characteristics, producing crisp, clear prints and minimizing noise during film scanning.

Optimized gradation balance
ETERNA Vivid 160 produces balanced, attractive skin tones and grays across a wide range of exposure conditions.

Super Nano-structured $\Sigma$ Grain Technology
This technology precisely controls the light-sensitive structure of the silver-halide grain to nano-scale, resulting in extremely fine silver halide grain. With photons generated by exposure to light concentrated in the photosensitive nucleus via electron accumulators, the grain is designed with a precise electron accumulator structure that efficiently concentrates photons to form the latent image. The grain configuration is precisely engineered to a thickness that minimizes reflections, effectively limiting dispersion of light and enhancing sharpness.

Super-Efficient Coupler Technology
A yellow coupler provides enhanced color formation during processing. Highly efficient color formation makes it possible to use a thinner layer of emulsion, minimizing dispersion of light and creating sharp, clear images with little distortion.

Super-Efficient DIR-Coupler Technology
DIR couplers control image formation by releasing inhibitors during development, efficiently controlling the development process to produce enhanced color reproduction (interlayer effect) and definition. The DIR couplers incorporated in this emulsion effectively work on the Super Nano-structured $\Sigma$ Grain to achieve superior color reproduction and enhanced sharpness.