

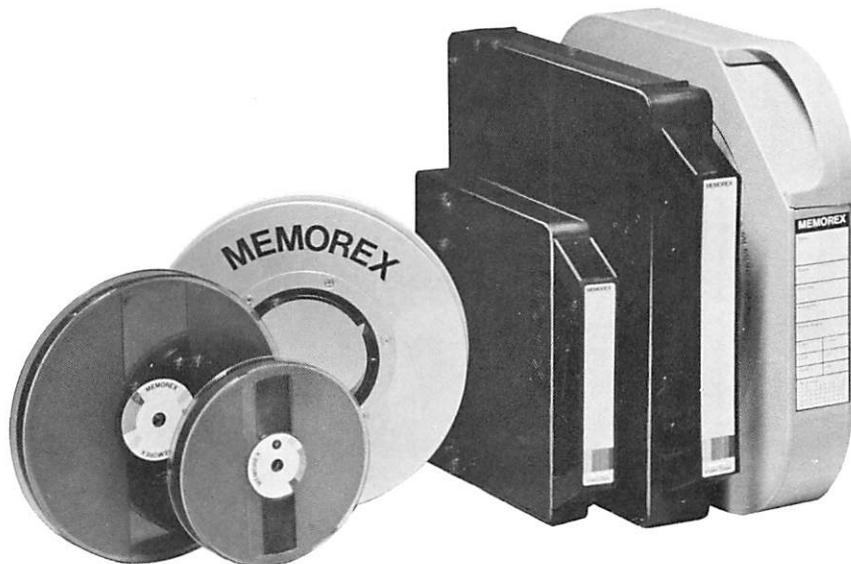
**MRX 80**  
**Helical Scan Reel-to-Reel Video Tape**

Memorex 80 tape combines a tough, cross-linked binder system with our exclusive oxide formulation and conductive back-coating process. It is specifically designed for today's advanced helical-scan video tape recorders. This combination provides you with: (1) a low dropout rate; (2) minimal chroma noise; (3) superior picture clarity; and (4) extended still-frame time.

Memorex 80 is available in 1/2", 1" and 2" widths in all popular configurations. All 1/2" and 1" video tapes are shipped in plastic album containers. An optional flame retardant shipper is available at an additional cost for 1" wide tapes.

**MEMOREX**

**MRX 80**  
**Helical Scan Reel-to-Reel Video Tape**



**MRX 80 Technical Data**

Reel-to-Reel Tape with Conductive Back Coating for Helical Scan Video Tape Recorders

**Performance**

Video Signal-to-Noise Ratio<sup>1</sup>  
Capable of exceeding 45 dB

Dropouts<sup>2</sup>  
Average Less than 15 per min.

Tape Life (Durability)<sup>3</sup>  
Capable of exceeding 500 passes

Still-Frame Time<sup>4</sup>  
Capable of exceeding 60 mins.

Audio Uniformity<sup>5</sup>  
± 1 dB

**Magnetic Properties\***

Oxide Orientation  
Longitudinal

Intrinsic Coercive Force (H<sub>ci</sub>)  
300 Oersteds

Retentivity (B<sub>r</sub>)  
1100 Gauss

**Physical Properties**

Base Material  
Precision Polyester

Total Thickness  
.0011 Inches Nominal .0282 mm Nominal

Ultimate Tensile Strength  
24,000 PSI 165.5 Newtons/Sq. mm

Yield Strength  
(Stress elongation, F5)  
13,500 PSI 93.1 Newtons/Sq. mm

Width Tolerance  
+0.000 in. + 0.000 mm  
-0.004 in. - 0.102 mm

Back-Coating Resistance  
Less than 5 Megohms/Sq.

**NOTES****1. Video Signal-to-Noise Ratio**

The signal-to-noise ratio is the ratio of the RMS noise to .714 volts peak-to-peak non-composite video and expressed in dB is equal to 20 Log .714/Noise RMS volts. The signal is a composite grey level of 50 IRE units. The ratio is measured at the output of the video tape recorder by a Rhode and Schwartz UPSF Standard M (USA) Video Noise Meter.

**2. Dropouts**

Dropouts are counted electronically on playback of a color signal which has been recorded at the optimum record current and equalization. A dropout is a loss of RF signal and is of a random rather than a repetitive nature. Dropout counts are based on defects causing a 20 dB or greater reduction in unlimited playback RF for a duration of 15 microseconds or longer.

**3. Tape Life**

Tape life is measured under laboratory conditions using an automatically programmed test. Failure is defined either as a significant increase in dropout activity (in excess of 30 per minute) or binder degradation resulting in a 3 dB loss in RF output.

**4. Still-Frame Time**

Stop-motion capability varies from one type recorder to another, from one head to another in the same recorder, with head-tip contour, with tip penetration, with tape transport tensions, and with temperature and relative humidity.

**5. Audio Output Uniformity**

The output of all MRX 80 video tape will fall within a tolerance of ± 1dB throughout the length of the reel and from reel to reel.

**6. Magnetic Properties**

Coercive force and retentivity are intrinsic values measure in the longitudinal direction using a 60 Hz magnetizing force of 1000 oersted amplitude.

**WARRANTY**

This video tape is warranted by Memorex to be free from defects in materials or manufacture and, if defective, will be replaced upon its return with proof of purchase to the place of purchase within ninety (90) days from the date of purchase. The determination of the fitness or suitability for a specific use is the responsibility of the buyer or user.

THIS WARRANTY IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS, AND NEITHER THE MANUFACTURER, NOR ANY AUTHORIZED DISTRIBUTOR SHALL BE LIABLE FOR ANY DIRECT OR CONSEQUENTIAL DAMAGE, INJURY, OR LOSS ARISING OUT OF OR INCIDENT TO THE USE OF OR INABILITY TO USE THE SUBJECT PRODUCT.

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