

# ACME MAGNETIC TAPES LTD.

## AUDIO MAGNETIC TAPE SPECIFICATIONS

### MS-590

<u>Measuring Condition</u>	Unit	C60	C90
1.Tape speed	cm/s	4.76	
2.Track Width	mm	0.6	
3.Gap Length:			
Record head	μm	3.0	
Playback head	μm	1.5	
4.Playback Equalization	μs	120+3180	
5.Reference Tape		IEC-IR723DG	
<u>Electroacoustic Properties</u>			
1.working Bias	%	100(+0/-10)	
2.Sensitivity at 315Hz	dB	> -2.5	> -2.5
3.Frequency Response			
at 8KHz	dB	≅ +0.0	≅ +0.0
at 12KHz	dB	≅ +0.5	≅ +0.5
4.Maximum output level at			
315Hz,THD:5%	dB	≅ +1.2	≅ +1.2
5.Saturation level at 8KHz	dB	≅ -7.5	≅ -7.5
10KHz	dB	≅ -9.0	≅ -9.0
6.Signal to noise ratio	dB	< -50	
<u>Magnetic properties</u>			
1.Coercivity (Hc)	Oe	375(±15)	375(±15)
2.Rententivity(Br)	Gs	850	850
3.Squareness(Br/Bs)		0.86(±0.2)	0.86(±0.2)
<u>Physical properties</u>			
1.Base material		Semi Tensilized	Semi Tensilized
		Polyester film	Polyester film
2.Tape width	mm	3.81(+0/-0.05)	
3.Base thickness	μm	11.0(±0.7)	7.5(±0.7)
4.Coating thickness	μm	2.6(±0.5)	2.4(±0.5)
5.Total thickness	μm	13.6(±0.7)	9.9(±0.7)
6.Base film specifications:			
Yield strength	kg	0.5	0.3
Breaking strength	kg	1.0	0.7
Residual elongation	%	-	
7.Color	-	Dark Brown	Dark Brown
8.Surface Resistance	Ω/Sq	≅ 2.0×10 <sup>10</sup>	≅ 2.0×10 <sup>10</sup>

NOTE:Specifications may be varied without prior notice.