

## D. Parámetros de color para las películas comestibles MAG, MPG y Q.

Tipo de película: MAG					
40 mL	L <sub>h</sub>	a <sub>h</sub>	b <sub>h</sub>	Saturación ( C )	Tono ( h )
1	58.03	5.49	10.75	12.07	62.95
2	62.28	5.45	11.49	12.72	64.62
3	57.68	5.19	12.52	13.55	67.48
4	55.53	5.15	13.01	13.99	68.42
5	61.23	5.17	12.07	13.13	66.80
6	54.25	5.10	12.91	13.88	68.45
7	65.12	5.36	11.67	12.85	65.32
8	59.82	5.25	12.44	13.50	67.13
9	59.24	5.27	12.11	13.21	66.40
<b>Promedio</b>	<b>59.24</b>	<b>5.27</b>	<b>12.11</b>	<b>13.21</b>	<b>66.40</b>
<b>DE</b>	<b>3.37</b>	<b>0.14</b>	<b>0.72</b>	<b>0.61</b>	<b>1.82</b>
<b>% CV</b>	<b>5.69</b>	<b>2.61</b>	<b>5.94</b>	<b>4.58</b>	<b>2.74</b>

  

50 mL	L <sub>h</sub>	a <sub>h</sub>	b <sub>h</sub>	Saturación ( C )	Tono ( h )
1	56.07	5.39	10.28	11.61	62.34
2	55.56	5.10	12.77	13.75	68.25
3	52.06	4.98	12.54	13.50	68.33
4	53.08	5.29	12.25	13.35	66.65
5	54.55	4.92	11.72	12.71	67.22
6	47.85	4.58	13.76	14.50	71.60
7	57.93	5.18	12.05	13.11	66.75
8	52.99	4.81	13.61	14.44	70.53
9	53.76	5.03	12.37	13.37	67.71
<b>Promedio</b>	<b>53.76</b>	<b>5.03</b>	<b>12.37</b>	<b>13.37</b>	<b>67.71</b>
<b>DE</b>	<b>2.86</b>	<b>0.25</b>	<b>1.04</b>	<b>0.88</b>	<b>2.62</b>
<b>% CV</b>	<b>5.32</b>	<b>4.91</b>	<b>8.37</b>	<b>6.58</b>	<b>3.87</b>

  

60 mL	L <sub>h</sub>	a <sub>h</sub>	b <sub>h</sub>	Saturación ( C )	Tono ( h )
1	51.26	4.64	12.86	13.67	70.16
2	51.70	4.64	12.93	13.74	70.26
3	50.62	4.59	12.70	13.50	70.13
4	46.29	4.19	12.60	13.28	71.61
5	46.52	4.17	12.62	13.29	71.72
6	46.33	4.32	12.75	13.46	71.28
7	54.36	5.06	12.83	13.79	68.48
8	53.55	4.93	12.93	13.84	69.13
9	55.21	5.20	12.53	13.57	67.46
<b>Promedio</b>	<b>50.65</b>	<b>4.64</b>	<b>12.75</b>	<b>13.57</b>	<b>70.02</b>
<b>DE</b>	<b>3.52</b>	<b>0.37</b>	<b>0.15</b>	<b>0.21</b>	<b>1.45</b>
<b>% CV</b>	<b>6.95</b>	<b>8.00</b>	<b>1.16</b>	<b>1.51</b>	<b>2.07</b>

DE- Desviación Estándar; %CV- Coeficiente de variabilidad=DE/media

<b>Tipo de película: MPG</b>					
<b>40 mL</b>	<b>L<sub>h</sub></b>	<b>a<sub>h</sub></b>	<b>b<sub>h</sub></b>	<b>Saturación ( C )</b>	<b>Tono (h)</b>
1	52.48	5.28	15.08	15.98	70.69
2	55.44	5.20	15.34	16.19	71.28
3	53.56	5.19	14.82	15.70	70.71
4	57.61	4.72	16.44	17.10	73.98
5	59.81	4.69	15.82	16.50	73.49
6	58.56	4.79	15.48	16.20	72.82
7	53.96	5.24	15.21	16.09	70.99
8	55.59	4.95	15.63	16.40	72.34
9	59.18	4.74	15.65	16.35	73.15
<b>Promedio</b>	<b>56.24</b>	<b>4.98</b>	<b>15.50</b>	<b>16.28</b>	<b>72.16</b>
<b>DE</b>	<b>2.65</b>	<b>0.25</b>	<b>0.47</b>	<b>0.39</b>	<b>1.27</b>
<b>% CV</b>	<b>4.71</b>	<b>5.01</b>	<b>3.04</b>	<b>2.41</b>	<b>1.76</b>

<b>50 mL</b>	<b>L<sub>h</sub></b>	<b>a<sub>h</sub></b>	<b>b<sub>h</sub></b>	<b>Saturación ( C )</b>	<b>Tono (h)</b>
1	50.22	5.57	15.05	16.04	69.70
2	48.13	5.39	15.91	16.80	71.28
3	48.96	5.47	15.38	16.32	70.42
4	49.17	5.37	15.68	16.58	71.10
5	48.32	5.43	15.56	16.48	70.77
6	55.90	4.84	16.67	17.36	73.81
7	53.07	4.88	16.80	17.50	73.79
8	49.86	5.15	16.84	17.61	73.01
9	50.45	5.26	15.99	16.84	71.73
<b>Promedio</b>	<b>50.45</b>	<b>5.26</b>	<b>15.99</b>	<b>16.84</b>	<b>71.73</b>
<b>DE</b>	<b>2.52</b>	<b>0.26</b>	<b>0.65</b>	<b>0.55</b>	<b>1.48</b>
<b>% CV</b>	<b>4.99</b>	<b>4.88</b>	<b>4.07</b>	<b>3.25</b>	<b>2.07</b>

<b>60 mL</b>	<b>L<sub>h</sub></b>	<b>a<sub>h</sub></b>	<b>b<sub>h</sub></b>	<b>Saturación ( C )</b>	<b>Tono (h)</b>
1	42.43	5.64	14.80	15.84	69.13
2	41.85	4.93	14.07	14.90	70.70
3	47.74	5.25	16.02	16.86	71.85
4	44.92	5.42	15.32	16.25	70.51
5	42.33	5.36	15.44	16.35	70.84
6	47.97	5.12	16.88	17.64	73.14
7	46.97	5.18	16.67	17.45	72.74
8	44.15	5.30	15.02	15.93	70.55
9	45.70	5.24	16.24	17.06	72.07
<b>Promedio</b>	<b>44.89</b>	<b>5.27</b>	<b>15.61</b>	<b>16.48</b>	<b>71.28</b>
<b>DE</b>	<b>2.37</b>	<b>0.20</b>	<b>0.92</b>	<b>0.87</b>	<b>1.27</b>
<b>% CV</b>	<b>5.28</b>	<b>3.82</b>	<b>5.91</b>	<b>5.28</b>	<b>1.78</b>

DE- Desviación Estándar; %CV- Coeficiente de variabilidad=DE/media

<b>Tipo de película: Q</b>					
<b>40 mL</b>	<b>L<sub>h</sub></b>	<b>a<sub>h</sub></b>	<b>b<sub>h</sub></b>	<b>Saturación ( C )</b>	<b>Tono (h)</b>
1	85.75	5.44	1.45	5.63	14.96
2	86.04	5.22	1.44	5.41	15.47
3	85.79	4.97	1.56	5.21	17.54
4	86.88	5.05	1.31	5.22	14.49
5	87.79	4.90	1.07	5.01	12.33
6	86.78	5.34	1.29	5.49	13.61
7	86.54	5.20	1.32	5.37	14.27
8	86.55	5.24	1.43	5.43	15.25
9	85.67	5.35	1.53	5.56	15.96
<b>Promedio</b>	<b>86.42</b>	<b>5.19</b>	<b>1.38</b>	<b>5.37</b>	<b>14.88</b>
<b>DE</b>	<b>0.69</b>	<b>0.18</b>	<b>0.15</b>	<b>0.19</b>	<b>1.47</b>
<b>% CV</b>	<b>0.80</b>	<b>3.52</b>	<b>10.88</b>	<b>3.62</b>	<b>9.91</b>

<b>50 mL</b>	<b>L<sub>h</sub></b>	<b>a<sub>h</sub></b>	<b>b<sub>h</sub></b>	<b>Saturación ( C )</b>	<b>Tono (h)</b>
1	84.28	5.67	1.70	5.92	16.70
2	86.27	4.94	1.45	5.15	16.39
3	83.60	5.55	1.97	5.89	19.50
4	86.91	5.35	1.23	5.49	12.96
5	87.37	5.12	1.33	5.29	14.54
6	88.13	4.97	1.20	5.12	13.57
7	85.24	5.57	1.52	5.78	15.22
8	84.34	5.61	1.87	5.91	18.39
9	85.45	5.39	1.50	5.59	15.52
<b>Promedio</b>	<b>85.73</b>	<b>5.35</b>	<b>1.53</b>	<b>5.57</b>	<b>15.87</b>
<b>DE</b>	<b>1.54</b>	<b>0.28</b>	<b>0.27</b>	<b>0.33</b>	<b>2.14</b>
<b>% CV</b>	<b>1.80</b>	<b>5.21</b>	<b>17.59</b>	<b>5.85</b>	<b>13.47</b>

<b>60 mL</b>	<b>L<sub>h</sub></b>	<b>a<sub>h</sub></b>	<b>b<sub>h</sub></b>	<b>Saturación ( C )</b>	<b>Tono (h)</b>
1	86.41	4.63	1.76	4.95	20.82
2	83.04	5.51	2.24	5.95	22.09
3	81.39	6.25	2.33	6.67	20.41
4	81.89	6.16	2.13	6.52	19.11
5	82.81	6.10	2.08	6.45	18.86
6	82.89	5.94	2.10	6.30	19.50
7	83.25	6.03	2.05	6.37	18.74
8	83.32	5.58	2.11	5.96	20.80
9	82.86	6.05	2.08	6.40	18.98
<b>Promedio</b>	<b>83.10</b>	<b>5.81</b>	<b>2.10</b>	<b>6.17</b>	<b>19.92</b>
<b>DE</b>	<b>1.40</b>	<b>0.51</b>	<b>0.15</b>	<b>0.52</b>	<b>1.16</b>
<b>% CV</b>	<b>1.68</b>	<b>8.77</b>	<b>7.35</b>	<b>8.37</b>	<b>5.83</b>

DE- Desviación Estándar; %CV- Coeficiente de variabilidad=DE/media