Technical conditions for CD and DVD pressing

CD 120 and 80 mm

Playing time / capacity

Metallization

The reflecting layer reflecting the laser beam can be in the colour:

- Silver – Al
- Golden – Al + Cu

Inner transparent part

The inner part of CD is transparent (clear) without the reflecting layer. The purpose of transparent part is to cover the unevenness of varnishing, which may occur at the centre of CD. If the reflecting layer covers the whole surface of CD, the unevenness of varnishing could be visible and could cause visual defects.

Maximal diameter of the transparent part:

- **ø 36 mm – standard**
- ø 26 mm – optional
- ø 19 mm – optional

Warning:
Please, only select the non-standard dimension of the inner transparent part, if it is essential to preserve the artwork printing on the whole surface. The whole reflecting layer should be covered by the printing!

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Shaped Discs

Maximum playing time and data capacity depending on the final recording radius

Radius [mm]	Playing time / capacity		
	[Sec]	[Min, sec]	[MB]
26	80	1:20	11,7
27	171	2:51	25,1
28	267	4:27	39,0
29	365	6:05	53,5
30	467	7:47	68,5
31	573	9:33	83,9
32	682	11:22	99,9
33	794	13:14	116,4
34	910	15:10	133,4
35	1030	17:10	150,9
36	1153	19:13	168,9
37	1279	21:19	187,4
38	1409	23:29	206,4
39	1542	25:42	225,9
40	1679	27:59	245,9
41	1819	30:19	266,5
42	1963	32:43	287,5
43	2110	35:10	309,1
44	2261	37:41	331,1
45	2415	40:15	353,7

The relation between the playing time and data capacity is: 1s = 153600 Byte

In case of production of the shaped discs it is necessary to add 2 mm to the above-mentioned radius.

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DVD 5, DVD 9, DVD 10

Capacity of the particular DVD types

Metallization

The reflecting layer reflecting the laser beam can be in the Silver colour (Al). The reflecting layer is defined by the inside diameter 36 mm and by the outside diameter 118 mm.

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