

2.2 Application

EURODEKOR® melamine faced chipboard is used primarily in decorative interior design and furniture applications. It is used in residential and commercial properties. EURODEKOR® E1 EPF-S CARB P2 CE and EURODEKOR® JP F 0.3 (F****) is used especially for furniture and interior design with increased demands on low formaldehyde emissions.

EURODEKOR® Flammex E1 P2 B/B1/M1 is available for increased fire safety.

2.3 Technical Data

Mechanical properties		Unit	Board thicknesses							
Average board values										
Density		[kg/m³]	specific to plant							
Thickness ranges		[mm]	3-6	>6-13	>13-20	>20-25	>25-32	>32-40		
P1	Transverse tensile strength /EN 319/	[N/mm²]	0.31	0.28	0.24	0.2	0.17	0.14		
	Bending strength /EN 310/	[N/mm²]	11.5	10.5	10	10	8.5	7		
Thickness ranges		[mm]	3-4	>4-6	>6-13	>13-20	>20-25	>25-32	>32-40	
P2	Transverse tensile strength /EN 319/	[N/mm²]	0.45	0.45	0.4	0.35	0.3	0.25	0.2	
	Bending strength /EN 310/	[N/mm²]	13	12	11	11	10.5	9.5	8.5	
	Bending elastic modulus /EN 310/	[N/mm²]	1800	1950	1800	1600	1500	1350	1200	
	Surface soundness /EN 311/	[N/mm²]	0.8	0.8	0.8	0.8	0.8	0.8	0.8	
P3	Transverse tensile strength /EN 319/	[N/mm²]	0.5	0.5	0.45	0.45	0.4	0.35	0.3	
	Bending strength /EN 310/	[N/mm²]	13	14	15	14	12	11	9	
	Bending elastic modulus /EN 310/	[N/mm²]	1800	1950	2050	1950	1850	1700	1550	
	24-hr swelling /EN 317/	[%]	23	20	17	14	13	13	12	
	Moisture resistance /EN 321/ <i>Transverse tensile strength after cyclic test</i>	[N/mm²]	0.18	0.18	0.15	0.13	0.12	0.1	0.09	
	Moisture resistance /EN 321/ <i>Swelling in thickness after cyclic test</i>	[%]	15	14	14	13	12	12	11	
	Thickness ranges	[mm]	3-4	>4-6	>6-10	>10-13	>13-20	>20-25	>25-32	>32-40
P4	Transverse tensile strength /EN 319/	[N/mm²]	0.45	0.45	0.4	0.4	0.35	0.3	0.25	0.2
	Bending strength /EN 310/	[N/mm²]	15	16	16	16	15	13	11	9
	Bending elastic modulus /EN 310/	[N/mm²]	1950	2200	2300	2300	2300	2050	1850	1500
	24-hr swelling /EN 317/	[%]	23	19	16	16	15	15	15	14
P5	Transverse tensile strength /EN 319/	[N/mm²]	0.5	0.45	0.45	0.45	0.45	0.4	0.35	0.3
	Bending strength /EN 310/	[N/mm²]	18	19	18	18	16	14	12	10
	Bending elastic modulus /EN 310/	[N/mm²]	2400	2450	2550	2550	2400	2150	1900	1700
	24-hr swelling /EN 317/	[%]	16	14	13	11	10	10	10	9
	Moisture resistance /EN 321/ <i>Transverse tensile strength after cyclic test</i>	[N/mm²]	0.3	0.3	0.25	0.25	0.22	0.2	0.17	0.15
	Moisture resistance /EN 321/ <i>Swelling in thickness after cyclic test</i>	[%]	12	12	12	12	12	11	10	9
P6	Bending strength /EN 310/	[N/mm²]	18	20	20	20	18	16	15	14
	Bending elastic modulus /EN 310/	[N/mm²]	2800	2900	3150	3150	3000	2550	2400	2200
	Transverse tensile strength /EN 319/	[N/mm²]	0.65	0.65	0.6	0.6	0.5	0.4	0.35	0.3
	24-hr swelling /EN 317/	[%]	18	16	16	16	15	15	15	14