

WKDT

Sandwich cores & composite sheets

Product forms and specifications for material selection.

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Product forms, material composition and specification tables.

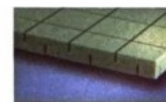
For grade selection, samples and current specifications, contact inquiry@weikongda.com.

Aramid & PP honeycomb cores



Material	Cell (mm)	Density (kg/m ³)	Comp. strength (MPa)	Shear L / W (MPa)	Shear modulus L / W (MPa)	Max sheet (mm)
Meta-aramid	3.2	32	0.64	0.68 / 0.41	—	—
Para-aramid	3.2	40	1.38	1.11 / 0.62	85 / 39	—
Meta-aramid	3.2	48	1.93 / 2.05	1.1 / 0.7 / 1.36 / 0.75	58 / 32	—
Para-aramid	3.2	48	2.05	1.45 / 0.8	124 / 55	—
Meta-aramid	3.2	64	3.2	1.6 / 0.97	—	—
Meta-aramid	3.2	80	4.2 / 5.26	1.8 / 1.08 / 2.62 / 1.48	92 / 61	—
Meta-aramid	3.2	144	15.04	3.52 / 2.35	138 / 106	—
Meta-aramid	4.8	32	0.7	0.62 / 0.37	—	—
Para-aramid	4.8	40	1.31	1.11 / 0.59	92 / 34	—
Meta-aramid	4.8	48	1.95	1.12 / 0.65	—	—
Para-aramid	4.8	48	2.1	1.48 / 0.84	121 / 64	—
Meta-aramid	4.8	64	3.4	1.62 / 0.91	—	—
Meta-aramid	6.4	48	2.35	1.18 / 0.69	—	—
PP	8	56-80	2.3	0.5	—	3000 × 1500
PP	12	60-70	2.0	0.5	—	3000 × 1500

PVC foam cores



Nominal (kg/m ³)	Density (kg/m ³)	Thickness (mm)	Comp. strength avg/min (MPa)
80	72-92	3-68	1.45 / 1.10
100	90-115	3-60	2.00 / 1.70
60	54-69	5-70	0.90 / 0.75
130	120-150	5-50	3.00 / 2.60

PET foam cores



Structure	Nominal (kg/m ³)	Density (kg/m ³)	Comp. strength avg/min (MPa)	Comp. modulus avg/min (MPa)	Sheet (mm)	Thickness (mm)
FR PET	65	60-70	0.8 / 0.7	—	1220 × 2440	5-100
Extruded PET	100	99-109	1.2 / 0.9	105 / 90	1005 × 2440	5-45
FR PET	110	105-115	1.4 / 1.2	—	1220 × 2440	5-100
FR PET	145	140-150	2.2 / 2.0	—	1220 × 2440	5-100
FR PET	210	200-220	3.8 / 3.2	—	1220 × 2440	5-100
Welded PET	—	60-78	0.85 / 0.75	—	1220 × 2440	5-100
Welded PET	—	80-90	1.3 / 1.1	—	1220 × 2440	5-100

Structure	Nominal (kg/m ³)	Density (kg/m ³)	Comp. strength avg/min (MPa)	Comp. modulus avg/min (MPa)	Sheet (mm)	Thickness (mm)
Welded PET	—	95-105	1.75 / 1.4	—	1220 × 2440	5-100
Welded PET	—	127-142	2.35 / 2.3	—	1220 × 2440	5-100
Welded PET	—	143-155	2.6 / 2.3	—	1220 × 2440	5-100
Welded PET	—	200-220	3.8 / 3.2	—	1220 × 2440	5-100
Welded PET	—	260-295	6.2 / —	—	1220 × 2440	5-100

Balsa end-grain cores



Density (kg/m ³)	Sheet (mm)	Rigid thickness (mm)	Contour thickness (mm)	Comp. strength (MPa)	Comp. modulus (MPa)	Shear (MPa)	Shear modulus (MPa)	Thermal W/m-K
109	610 × 1220	3.5-90	3.5-63.5	5.5	1610	1.8	136	0.048
132	610 × 1220	3.5-90	3.5-63.5	7.7	2187	2.3	166	0.059
148	610 × 1220	3.5-90	3.5-63.5	9.2	2526	2.6	187	0.066
285	610 × 1220	5-75	3.5-45	22	4428	5.2	362	0.084

Glass / PP composite sheets



Weight g/m ² (calc.)	Resin	Glass content (%)	Thickness (mm)	Density (kg/m ³)	Tensile (MPa)	Flexural (MPa)	HDT (°C)
225-750	PP	≥60	0.15-0.5	1500±200	≥750	≥300	≥150
750-15000	PP	≥60	0.5-10	1500±200	≥450	≥340	≥150