

TECHNICAL - DATASHEET

KAPA-PLAST



characteristics

panel construction:	sandwich - element with PUR - rigid foam core, plastic coated fine cellulose	
behaviour in external conditions:	sheet -	not flame retardant,
	foam -	no waterabsorption, only in cut cells
	layer -	no waterabsorption
chemical reaction:	foam	constant against the most solvents and glues glues which contains toluol, please make trials
	layer	constant against glues and inks
behaviour against thermal effects	sheet performance temperature continuous $T_c = -20 - 100\text{ }^{\circ}\text{C}$ shortterm $T_s = \text{to } 160\text{ }^{\circ}\text{C}$	
additional compliance to following standards	DIN EN ISO 9001 1994-08 Quality systems - Model for quality assurance in design/development, production, installation and servicing DIN EN 71 07.89 Security of toys T1: mechanical and physical properties T2: incintivity T3: migration of fixed elements	

technical data and tolerances

					tolerance	unit	method
thickness	3,0	5,0	10,0	15,0	$\pm 0,6$	mm	KAPA-Meth.
specific gravity	60,0	53,0	47,0	46,0	± 5	kg/m ³	KAPA-Meth.
gsm substance approx. data	540	610	730	1200	-	g/m ²	KAPA-Meth.
behaviour in fire	B3				-	-	DIN 4102
compression strength	$\approx 0,1$	$> 0,3$	$> 0,45$	$> 0,4$	-	N/mm ²	DIN 53421
10 % compression set	≈ 97	≈ 96	≈ 95	≈ 95	-	%	DIN 53421
return movement	≈ 97	≈ 96	≈ 95	≈ 95	-	%	DIN 53421
10 % compression set	≈ 97	≈ 96	≈ 95	≈ 95	-	%	DIN 53421
bending strength	$> 7,5$	> 6	> 3	> 3	-	N/mm ²	DIN 53423
open cells	> 95				-	%	KAPA-Meth.
surface pH-value	8,3				-	-	Zc.-M. V/17/80
quench-age	8,4				-	-	Zc.-M. V/17/80
hot extract. pH-value	9,2				-	-	DIN 53124
quench-age	8,2				-	-	DIN 53124

packaging units

pieces per box:	3	5	10	15	tolerance	right angle
sizes:						
1000 x 700	40	24	12	-	$\pm 1\text{ mm}$	$\pm 1\text{ mm/m}$
1000 x 1400	40	24	12	8	$\pm 1\text{ mm}$	
3000 x 1400	-	18	12	8	$-1 + 10\text{mm}$	

All data is based on our current knowledge and experience. It's intended as an advice without being legally binding, edition 01/02 Alcan Kapa GmbH Kiefernweg 10 D-49090 Osnabrück