



KÖMATEX[®]
printing. lacquering. filming.

KÖMATEX[®] PVC-U plastic sheets —
always set a good example



Trade information for:

- Decorators
- Advertising technicians
- Digital printers
- Design & advertising agencies
- Exhibitors
- Exhibition stand builders
- POS fitters
- Sign makers
- Modellers and prototype builders



KÖMMERLING[®]
Business Unit Sheets

KÖMATEX® — because surface strength is always important

“Ideal to work with, great to finish!”

KömaTex PVC-U sheets have a regular, fine-celled foam structure and good surface strength. The closed-cell, matt, fine-textured and high-quality surface is ideal for printing, lacquering and filming and is also easy to work. The KömaTex PVC-U sheets are also flame-resistant. All this adds up to offer ideal conditions for a highly diverse range of applications, above all in advertising.

Whether it be for signs, billboards or displays, shop-fittings or exhibition stands: KömaTex is the right choice for most purposes. Thanks to their weathering resistance, KömaTex sheets in white are also the perfect material for outdoor applications.

Flexible enough for a wide range of applications — strong enough for long-term use!

KömaTex is suitable for, among other things:

Advertising

For example, for signs, billboards, lettering boards, displays, shop-window displays, exhibition stands, digital direct printing, milled lettering

Building sector


For example, for shopfitting, interior decorating


Miscellaneous

For example, for models, photograph lamination, traffic signs for roadworks, thermoformed parts





Top characteristics!

 .Highly suitable for bonding


 .Very suitable for printing


 .Suitable for filming

 .Easy to work


 .Flame-resistant

 .Weather-resistant

 .Very low absorption of water, no rot

 .Resistant to chemicals and corrosion

 .Thermoformable

 .Low thermal conductivity, good insulation

 .Lightweight

Exceedingly easy to work!



Machining

Sawing, milling, turning, cutting, punching, perforating, water-jet cutting, polishing



Forming

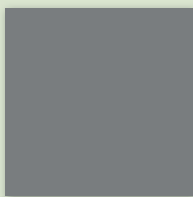
Thermoforming, stretch forming, folding, bending, compression moulding, embossing, welding, bonding



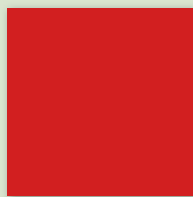
Printing, lacquering and film-laminating

Digital printing, screen printing, acrylic paints/lacquers, 2-component paints/lacquers, commercially available synthetic paints, laminating

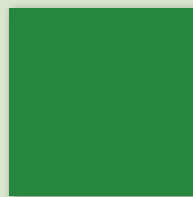
Standard colours



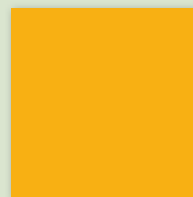
Grey 191



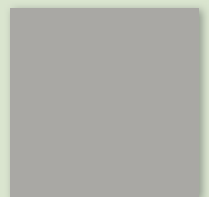
Red 491



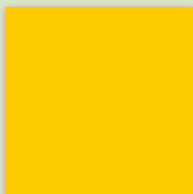
Green 591



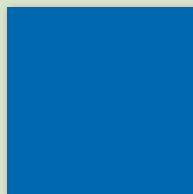
Signal yellow 750



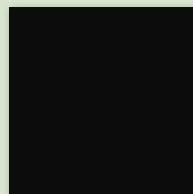
Agate grey 140



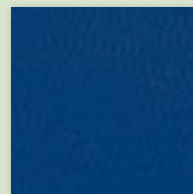
Yellow 791



Blue 891



Black 991



Marine blue 850

Permissible colour deviation in accordance with DIN 6174, White ≤ 1.2 CIELAB units.

Permissible colour deviation in accordance with DIN 6174, Colours ≤ 2.5 CIELAB units.

Information: The colours illustrated may deviate from the actual colours!

Coloured PVC-U sheets are not fully resistant to the effects of UV rays and weathering over long periods of time. They should therefore be used outdoors for limited periods only.

Delivery programme

Sizes (mm)	White 652 thicknesses (mm)	Coloured thicknesses (mm)	Pieces/pallet
2440 X 1220	1		200
3050 X 1220	1		200
3000 X 1000	2		140
2440 X 1220	2		140
3050 X 1220	2		140
3050 X 1560	2		140
3050 X 2050	2		90
3000 X 1000	3		125
2440 X 1220	3		125
3050 X 1220	3	3	125 / 80
3050 X 1560	3		100
3050 X 2050	3		80
4050 X 2050	3		50
3000 X 1000	4		100
2440 X 1220	4		100
3050 X 1220	4		90
3050 X 1560	4		70
3050 X 2050	4		70
4050 X 2050	4		40
2440 X 1220	5		90
3000 X 1000	5		90
3050 X 1220	5	5	70 / 50
3050 X 1560	5		60
3050 X 2050	5		60
4050 X 2050	5		30
2440 X 1220	6		75
3000 X 1000	6		75
3050 X 1220	6		60
3050 X 1560	6		50
3050 X 2050	6		50
4050 X 2050	6		25
3050 X 1220	8	8*	50 / 50
3050 X 1560	8		50
3050 X 2050	8		30
4050 X 2050	8		20
3050 X 1220	10		50
3050 X 1560	10		40
3050 X 2050	10		30
4050 X 2050	10		20
3050 X 1220	15		30

*Note: The following colours are available as standard: Agate grey 140, Red 491, Blue 891 and Black 991

Tolerance

Plate thickness	Thickness tolerance	
	in mm	absolute in mm
1 mm	+ 0.10 / - 0.00	0.10
2 mm	± 0.20	0.20
3 mm	± 0.25	0.25
4 mm	± 0.30	0.30
5 mm	± 0.35	0.35
6 mm	± 0.40	0.40
8 mm	± 0.50	0.40
10 mm	± 0.60	0.60

Length tolerance: -0 / +10 mm

Width tolerance: -0 / +2.5 mm











Evenness for 10 mm: max. 1.5 mm/m

KÖMATEX® dp—always makes a great impression

Particularly in conjunction with digital printing processes, the unique surface finish of KömaTex dp combines the advantages of rapid processing and high flexibility with perfect print results. Thanks to its fine-celled, specially pretreated surface, the rigid, high-resistance PVC-U sheet is the ideal basis for true-to-detail, high-opacity and colour-fast print images. With digital direct printing in mind, our development engineers have paid special attention to ensuring the

sheets are completely flat and clean, and that they offer good adhesion for inks. The tight production tolerances also benefit printing with UV-curing or solvent-based inks, because they enable rapid processing speeds. An adhesive protection film specifically developed for KömaTex dp also ensures that the sheets are kept free of contamination before they are printed on the flat-bed printer.

Top characteristics!

-  .Maximum possible process reliability
-  .Even tighter tolerances
-  .Surface with even better grip
-  .Good flexural strength
-  .Specially pretreated
-  .Protective film on both sides with cleaning effect
-  .Fine surface structures
-  .Tested on all flat-bed printers available
-  .Extremely good covering power
-  .Rapid processing speeds

Delivery programme

	Sizes* in mm, White 652	Thicknesses in mm
Stock	3050 x 1220	3, 4, 5
	3050 x 1560	3, 4, 5
Quantity-based production	3050 x 1220	6, 8, 10
	3050 x 1560	6, 8, 10

*Protective film on both sides.

Technical Data

Properties	Test method	Unit	Thickness (mm)	Thickness (mm)
Mechanical properties			1-3	4-10
Apparent density*	DIN 53479/ISO 1183	g/cm ³	~ 0.7	~ 0.55
Tensile stress at yield (tensile strength)	DIN 53455/ISO 527	MPa	≥ 18	≥ 12
Elongation at tear	DIN 53455/ISO 527	%	≥ 20	≥ 15
Flexural strength	DIN 53452/ISO 178	MPa	≥ 30	≥ 20
Compressive strength (range of elasticity per Hooke)	DIN 53421 (based on)	MPa	> 6	> 4
Compressive stress at 30%	DIN 53421 (based on)	MPa	> 14	> 10
Modulus of elasticity	DIN 53457/ISO 527-2/1A/50	MPa	~ 1000	~ 850
Impact strength	DIN 53453/ISO 179 (based on)	kJ/m ²	~ 10	~ 10
Ball indentation hardness (49 N/30 s)	DIN 53456/ISO 2039-1	MPa	≥ 8	≥ 8
Shore hardness D	DIN 53505		~ 50	~ 50
Thermal properties				
Vicat softening temperature	DIN 53460/ISO 306	°C	≥ 75	≥ 75
		(process A50)		
Deflection temperature	DIN 53461/ISO 75	°C	60	60
		(process A50)		
Coefficient of linear thermal expansion from -30 °C to +50 °C	DIN 53752	mm/mK	≤ 0.08	≤ 0.08
Thermal conductivity from 0 °C to +60 °C	DIN 52612	W/mK	0.10	0.06
Electrical properties				
Surface resistance	DIN VDE 0303 T3/DIN IEC 93	Ω	> 10 ¹⁵	> 10 ¹⁵
Volume resistivity	DIN VDE 0303 T3/DIN IEC 93	Ω · m	10 ¹⁴	10 ¹⁴
Dielectric strength E _d	DIN VDE 0303 T21	kV/mm	≥ 20	≥ 20
Comparative figure of tracking	DIN IEC 112		CTI 600	CTI 600
Dielectric constant E _r (at 1 kHz)	VDE 0303 T4		~ 2.0	
Dielectric dissipation factor Tan δ (at 1 kHz)	VDE 0303 T4		~ 0.010	
Other properties				
Water absorption after 7 days	DIN 53495	%	< 0.3	< 0.3
Fire behaviour	DIN 4102 (D)	1-6 mm	B1	
	UL 94 (USA)	≥ 3 mm	VO	
	NFP 92-501 (F)	1-6 mm (8 + 10 mm white)	M1	M2
	Brandkennziffer (fire charac.) (CH)		5.3	
	Brandkennziffer (fire charac.) (CH)			5.3
	CSE-RF2/75 A (I) CSE-RF3/77 (I)	1-6 mm	Class 1	-
Physiological evaluation	generally recognised as safe			

* These are standard values which apply to an average density.
Minor variations are possible depending on the sheet thickness.