



Opskummet PVC

Material Properties for “Opskummet PVC” in Extra White, black and white with black core PVC foam sheet. The values are a list of typical results by testing large numbers of specimens under specified conditions. Additional processing can influence the properties so we recommend caution must be adhered to when applied to the finished products.

APPLICATIONS

Outdoor & indoor signs, displays, very flat, highly consistent finish, UV Stable, Low flammability, Perfect for high quality digital print

PHYSICAL CHARACTERISTICS

Polyvinyl chloride PVC.

Type	Free foam PVC
Color and Finish	Superb, ultra-smooth bright white matt surface or black surface or white surface with black core
Thickness	2-20mm
Density	±0,50 g/cm ³ : on stock in 3,5 and 10 mm ±0,55-0,65 g/cm ³ on stock in : 1, 2, 13, 19 and 30 mm ±0,55-0,65 g/cm ³ on stock in: colors, black 3, 5 and 10mm
Smell	Odorless
Water absorption	0,10%
Water Solubility	insoluble
Tensile strength at yield	~ 12 MPa
Modulus of Elasticity	~ 850 MPa
Flexural Strength	> 30 MPa
Elongation at break	~ 13 %
Impact Resistance (CHARPY)	~ 14 kJ/m ²
Impact Resistance (IZOD)	~ 9 MPa
Shore Hardness	~ 30-40 (Shore -D)

THERMAL PROPERTIES

Vicat Softening temperature	~ 73°C
Heat Deflection Temperature @1.8MPa	~ 58°C
Coefficient of linear expansion	4.47 X 10 ⁻⁵
Thermal Expansion	0.06W/ mK
Service Temperature	-20°C to +60°C



ELECTRICAL PROPERTIES

Surface Resistivity (ohms)	$10^{14} \Omega$
Volume Resistivity	$10^{15} \Omega\text{cm}$
Dielectric Constant at 1MHz	1,56
dielectric strength	

TOLERANCES

Length	-0 +10mm
Width	-0 +3mm
Thicknesses	$\pm 5\%$

Converting Method

Compatible with UV and screen inks.

SIZES AND ITEM NUMBERS

1mm white with green liner and density 0,55-0,65/cm³

1.220 x 2.440mm grøn liner – 10122244

2mm white with green liner and density 0,55-0,65/cm³

1.560 x 3.050mm, item number 20156305

3mm white with blue liner and density $\pm 0,50$ g/cm³

1.220 x 2.440mm, item number 30122244

1.560 x 3.050mm, item number 30156305

2.050 x 3.050mm, item number 30205305

3mm black with density $\pm 0,55-0,65$ g/cm³

1.560 x 3.050mm, item number 30S156305

5mm black with density $\pm 0,55-0,65$ g/cm³

1.220 x 2.440mm, item number 50S122244

2.050 x 3.050mm, item number 50S205305

5mm white with blue liner and density $\pm 0,50$ g/cm³

1.220 x 2.440mm, Item number 50122244

1.220 x 3.050mm, item number 50122305



1.560 x 3.050mm, item number 50156305

2.050 x 3.050mm, item number 50205305

10mm white with blue liner and density $\pm 0,50$ g/cm³

1.220 x 2.440mm, item number 100122244

1.220 x 3.050mm, item number 100122305

1.560 x 3.050mm, item number 100156305

2.050 x 3.050mm, item number 100205305

10mm black with density $\pm 0,55-0,65$ g/cm³

1.560 x 3.050 mm, Item number 100S156305

10mm white with black core and green liner and density $0,55-0,65$ /cm³

1.560 x 3.050mm grøn liner 10mm - 100WW156305

13mm white green liner and density $\pm 0,50-0,55$ g/cm³

1.560 x 3.050mm, item number 130156305

19mm white green liner and density $\pm 0,50-0,55$ g/cm³

1.220 x 3.050mm, item number 190122305

19mm white green liner and density $\pm 0,50-0,55$ g/cm³

1.220 x 3.050mm, item number 300122305

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The methods of conversion and application of Carl Jensen's self-adhesive materials are multiple and it is therefore essential that the users are aware of the particular method to be used, prior to commencing the production.

Printing: Testing for compatibility between product, printers and inks is always highly recommended before printing the product.

Application Systems and Conditions: it is recommended that the performance of the product be always tested in the actual applications conditions as substrate state (rough, smooth, flat or irregular shapes, moderate curves, with or without rivets); applicator technology (hand application or fully automated lines); specific stress on Carl Jensen material once applied (high and/or low temperature, mechanical stress, exposure to challenging environment conditions), et cetera.

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