

Vivak® Solid copolyester sheet



Your benefits:

- excellent thermoformability
- good impact strength
- suitable for food-contact applications
- good fire rating

Solid **Vivak®** sheets are made of thermoplastic copolyester. They offer high impact strength, a good fire rating and are fully recyclable.

Vivak® clear 099 is a clear transparent sheet with extremely high light transmission and high gloss. Vivak® clear 099 can be used for food-contact applications.

Applications:

Ideal fields of application for **Vivak®** are: P.O.S. (displays, price tag holders, shelf partitions), direction signs, promotional symbols, food containers and trays, flat and formed machine coverings, partitions.

Vivak® can be rapidly thermoformed at low energy consumption, short production cycles, extreme degrees of stretching and accurate mold surface reproduction, without predrying. The sheets are easy to screen print, 3D-print and machine.

	Test Conditions	Typical values	Unit	Standard
PHYSICAL				
Density		1.27	g/cm ³	ISO 1183-1
Moisture absorption	after storage in standard climate 23 °C/50 %r.F.	0.2	%	ISO 62-4
	after storage in water at 23 °C until saturation	0.6	%	ISO 62-1
Refractive index	20 °C	1.567	-	ISO 489
MECHANICAL				
Tensile stress at yield		> 45	MPa	ISO 527-2/1B/50
Elongation at yield		4	%	ISO 527-2/1B/50
Tensile strength		> 45	MPa	ISO 527-2/1B/50
Elongation at break		> 35	%	ISO 527-2/1B/50
Elastic modulus		2,020	MPa	ISO 527-2/1B/1
Limiting flexural stress		ca. 80	MPa	ISO 178
Impact strength	Charpy, unnotched	no break	kJ/m ²	ISO 179/1fU
	Charpy, notched	ca. 7	kJ/m ²	ISO 179/1eA
	Izod notched	ca. 6	kJ/m ²	ISO 180/1A
THERMAL				
Vicat softening temperature	Method B50	80	°C	ISO 306
Thermal conductivity		0.2	W/m K	DIN 52612
Coeff. of linear thermal expansion		0.05	mm/m K	DIN 53752-A
Heat deflection temperature under load	Method A: 1.80 MPa	63	°C	ISO 75-2
	Method B: 0.45 MPa	70	°C	ISO 75-2
ELECTRICAL				
Dielectric strength		16.1	kV/mm	IEC 60243-1
Volume resistivity		10 ¹⁵	Ohm·cm	IEC 60093
Surface resistivity		10 ¹⁶	Ohm	IEC 60093
Dielectric constant		2.6		IEC 60250
	at 10 ³ Hz	2.4		IEC 60250
	at 10 ⁶ Hz	0.005		IEC 60250
Dissipation factor	at 10 ³ Hz	0.02		IEC 60250
	at 10 ⁶ Hz			IEC 60250

The mechanical properties were measured on sheets of 4 mm thickness.



Vivak - PETg



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Exolon Group S-Line, the standard product line, represents a range of certified quality products which offer the reliable solution for most applications.

Light Transmission:

Test method according to DIN EN ISO 13468. The stated thicknesses are not all available as standard. Please ask us for more information. The stated values are typical values only.

Light transmission in %	0.6	0.75	1	1.5	2	2.5	3	4	5	6	8	10	12	15
Vivak® clear 099	90	90	90	90	89	89	88	88	87	86	85	84	80	80

Available sizes:

Vivak® clear 099 is available in thicknesses of 0.6-15 mm.
Our standard sizes are the dimensions:
2,050 x 1,250 mm and 3,050 x 2,050 mm.

Other colors are on request.

Please contact us, if you need other dimensions.

Thermoforming:

Due to their excellent flow and mold surface reproduction, **Vivak®** sheets can be thermoformed at low temperatures without predrying. Because of its low specific heat capacity, **Vivak®** requires little energy for thermoforming.

Permanent Service Temperature:

The maximum permanent service temperature without load is approx. 65 °C.

Food compatibility

Vivak® clear 099 can be used for food-contact applications.

Fire Rating (*):

Country	Standard	Rating	Thickness	Color
Europe	EN13501-1	B-s1, d0 B-s2, d0	2-8 mm 2-6 mm	clear 099 all colors
UK	BS 476 Part 7	Class 1Y	2&15 mm	clear 099
Germany	DIN 4102	B1 (indoors)	0.6-12 mm	all colors

(*): fire certificates are limited in time, always check if the mentioned certificate is still valid.

Glow wire flammability index, IEC 60695-2-12, in °C (*)

	0.6	0.75	1	1.5	2	2.5	3	4
Vivak® clear 099	960	960	900	960	960	960	960	960
Vivak® bronze 850					960		960	



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