

Trovidur® EC Clad

Trovidur® EC Clad is the name for extruded sheets of rigid PVC (PVC-U) containing no plasticizer and no fillers, normal impact strength.

The sheets are produced from unplasticised moulding materials according to DIN EN ISO 1163-1.

They conform to the technical supply conditions (dimensions) of DIN EN ISO 11833-1.

The material corresponds to the following moulding compound:

ISO 1163-1 - PVC-U, EC, 074 - 05 – T28

characterizing features:

- normal impact strength
- printable
- can be welded and bonded
- easy processing

sizes and tolerances

Size	:	2440 x 1220 mm
Thickness	:	1 to 3 mm
Colour	:	White 10
Surface	:	smooth
		other sizes, surface and colour on request
tolerance of thickness	:	$\pm (0,1 + 0,03 \cdot s)$, s = thickness [mm], according to DIN EN ISO 11833-1
tolerance of length	:	depending on the format to DIN EN ISO 11833-1
tolerance of width	:	depending on the format to DIN EN ISO 11833-1
Remark	:	Production and minimum quantities available on request

The semi-finished materials are free from blisters, voids and are perfectly homogenous.

Physical Properties

The physical data given in the table were determined on the test specimens under defined conditions and represent averages values from a relatively large number of measurements. The values measured on test specimens can't be used without restriction for a prediction of the properties of finished articles, since processing and shaping have an influence on the properties.

Property	Standard	Test method	Unit	Trovidur® EC Clad
Mechanical Properties				
Density	ISO 1183		g/cm ³	≈ 1,44
Tensile stress at yield	DIN EN ISO 527	test specimen 1 B	N/mm ²	50
Elongation at break	DIN EN ISO 527	test specimen 1 B	%	20
Modulus of elasticity	ISO 527-2	test specimen 1 B	N/mm ²	2700
Compression strength	ISO 3605		N/mm ²	65
Stress at 3,5% Strain	ISO 178		N/mm ²	70
Impact strength	DIN EN ISO 179	test specimen 1eU	kJ/m ²	no rupture at 0 °C
Notch impact strength	DIN EN ISO 179	test specimen 1eA	kJ/m ²	4
Ball-pressure hardness	ISO 2039	H358/30	N/mm ²	≈ 110
Shore hardness D	DIN EN ISO 868			–
Thermal Properties				
Vicat softening temperature	DIN EN ISO 306	Method B 50	°C	75
Heat distortion temperature	DIN EN ISO 75	Method A	°C	≈ 65
Heat distortion temperature	DIN EN ISO 75	Method B	°C	≈ 70
Coefficient of linear expansion	DIN 53 752	20 to 60°C	K ⁻¹	≈ 70 · 10 ⁻⁶
Thermal conductivity at 20°C	DIN 52 616		W/(m · K)	≈ 0,18
Electrical properties				
Volume resistivity	DIN IEC 60093 VDE 0303-30	–	Ω · cm	> 10 ¹⁵
Surface resistivity	DIN IEC 60093 VDE 0303-30	–	Ω	> 10 ¹³
other properties				
Temperature range for application		Classification		–15 to max. 60°C
Fire behaviour Class	UL 94 (USA) (1)	2,5 mm		V-0
	BS 476 Part 7 and Part 6 (GB)	1,5 mm - 12 mm		Class 1 and Class 0
	EN 13501-1	1,5 mm		B -s2, d0
	EN 13501-1	2,5 mm – 6 mm		B -s3, d0

Note:

(1) The exams were conducted in-house / without listing