



TECHNICAL DATASHEET

STERICLAD™

Stericlad 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 1220mm

Thickness : 1 to 3mm

Colour : White 10

Surface : smooth

Other sizes, surface and colour on request

Tolerance of thickness : $(0,1 + 0,03 \cdot s)$, 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.

No blisters, voids, or imperfections are present in the semi-finished materials, ensuring perfect homogeneity.

Physical Properties

The physical properties listed in the table were obtained from test specimens under controlled conditions and represent average values derived from extensive measurements. However, these results cannot be directly applied to predict the behavior of final products, as processing and shaping processes may significantly affect material properties.



REARO®

Property	Standard	Test method	Unit	Stericlad
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 1eU	kJ/m ²	4
Ball pressurer hardness	ISO 2039	H358/30	N/mm ²	» 110
Shore hardness D	DIN EN ISO 868			-
Thermal properties				75
Vicat softening temperature	DIN EN ISO 306	Method B 50	°C	» 65
Heat distortion temperature	DIN EN ISO 75	Method A	°C	» 70
Heat distortion temperature	DIN EN ISO 75	Method B	°C	» 70 × 10 ⁻⁶
Coefficient of linear expansion	DIN 53 752	20 to 60°C	K ⁻¹	» 0,18
Thermal conductivity at 20°C	DIN 52 616		W/(m × K)	
Electrical properties				> 10 ¹⁵
Volume restivity	DIN IEC 60093 VDE 0303-30	-	Ω - cm	> 10 ¹³
Surface restivity	DIN IEC 60093 VDE 0303-30	-		
Other properties				
Temperature range for application		Classification		-15 to max. 60°C
Fire behaviour class	DIN 4102 (D)	1 mm – 4 mm	-	B1
	UL 94 (USA)	1,5 mm min.thickness		V-0, 5VB, (GY,WT,BK)
	UL 94 (USA)	3 mm min.thickness		V-0, 5VB, (GY,WT,BK)
	BS 476 Part 7 and Part 6 (GB)	1,5 mm - 12 mm		Class 1 and Class 0
	NFP 92-501 (F)	1 mm - 10 mm		M1
	EN 13501-1	1,5 mm – 6 mm		B -s3, d0