

# ELBER®

## PVC RIGID SHEET

PVC RIGID SHEET IS FREE OF LEAD, CADMIUM & BARIUM METALS.

PROPERTY	UNIT	REF.STANDARD	VALUE
<b>PHYSICAL</b>			
DENSITY	g / cc	DIN 53479	1.40 – 1.46
HARDNESS	SHORE 'D'	DIN 53505	80
WATER ABSORPTION	%	DIN 53495	0.1
<b>MECHANICAL</b>			
TENSILE STRENGTH	MPa	DIN 53455	> 45
ELONGATION	%	DIN 53455	> 60
E-MODULUS	MPa	DIN 53457	3000
IZOD IMPACT STRENGTH	KJ/M <sup>2</sup>	ASTM D 256	NO BREAK
CHARPY IMPACT STRENGTH	KJ/M <sup>2</sup>	DIN 53253	> 7.5
FLEXURAL STRENGTH	MPa	DIN 53452	80
DROP IMPACT STRENGTH (Height : 1.8M& Mass:0.3*Thickness)	--	IS 6307	PASSES
COMPRESSIVE STRENGTH AT 10% DEFORMATION	MPa	DIN 53421	60
<b>THERMAL</b>			
VICAT (B/50)	° C	DIN 53460	80
VICAT (B/50) @1.8 MPa	° C	DIN 53461	65
COEFFICIENT OF LINEAR THERMAL EXPANSION	mm / m ° C	ASTM D 696	0.08
Sheet surface temperature for continuous application	° C	--	Max 50

## ELECTRICAL

SURFACE RESISTIVITY	$\Omega$	ASTM D 257	$2.8 \times 10^{16}$
VOLUME RESISTIVITY	$\Omega\text{-cm}$	ASTM D 257	$8.1 \times 10^{15}$
DIELECTRIC CONSTANT at 1MHZ	-	ASTM D 150	3.13
DIELECTRIC STRENGTH			
DIMENSIONAL CHANGE	KV/mm	DIN IEC 243	16.8
At $120 \pm 2^\circ \text{C}$	%	BS 3757	$\leq 15$

## FLAMMABILITY

<u>COUNTRY</u>			
UK	-	BS476;PART 7	CLASS 1Y
USA		UL 94	94 V – 0
			94 5 – V

## STANDARD DIMENSIONS AND COLOR

- COLOUR : J 7011, J 7032, J 7016 & J 7020
- THICKNESS : 2 to 12.7 MM
- WIDTH : 1000, 1220 & 1500 MM
- LENGTH : 2000, 2440 & 3000 MM
- SPECIAL LENGTHS & WIDTHS AS PER CUSTOMER'S REQUEST.

## TOLERANCE ON DIMENSIONS

- LENGTH : - 0, + 10 MM
- WIDTH : - 0, + 5 MM
- THICKNESS :  $\pm 10\%$