

Property	Unit	Ref. Standard	Value
Physical			
Density	g / cc	DIN 53479	1.40 – 1.46
Hardness	Shore 'D'	DIN 53505	80
Water Absorbtion	%	DIN 53495	0.1
Mechanical			
Tensile Strength	MPa	DIN 53455	> 45
Elongation	%	DIN 53455	> 60
E-Modulus	MPa	DIN 53457	3000
IZOD Impact Strength	KJ/M ²	ASTM D 256	No Break
CHARPY Impact Strength	KJ/M ²	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
Thermal			
VICAT (B/50)	°C	DIN 53460	80
Heat Deflection Temperature @1.8 MPa	°C	DIN 53461	65
Coefficient of Linear Thermal Expansion	°C ⁻¹	ASTM D 696	7.07 x 10 ⁻⁵
Electrical			
Surface Resistivity	Ω	ASTM D 257	2.8 x 10 ¹⁶
Volume Resistivity	Ω - cm	ASTM D 257	8.1 x 10 ¹⁵
Dielectric Constant at 1MHZ Dielectric Strength	-	ASTM D 150	3.13
Dimensional Change	KV/mm	DIN IEC 243	16.8
At 120 ± 2 °C	%	BS 3757	< 15
Flammability			
UK (test report available upon request)	-	BS476; Part 7	Class 1Y 94 V-0

Standard Dimensions and Colour			
Colour	Thickness	Width	Length
White – J 7020	2.5mm	1220mm	2440mm
Tolerance on dimensions			
Length	Width	Thickness	
- 0, + 10 MM	- 0, + 5 MM	+ 10 %	

Guardian PVC Rigid Sheet is free of Lead, Cadmium and Barium metals.

All information given for properties are based on a typical sample, is accurate to the best of our knowledge, and is provided without liability or commitment whatsoever. In as much as Jain Irrigation Systems Limited has no control over the use to which others put its material, it does not guarantee that the same results as those described here, will be obtained. Each user of the material should make their own test in their local conditions to confirm the suitability of our product for particular use. Technical specifications are subject to change.