

IS 14611 : 2016

Requirements for Multilayered Cross Laminated Sheets/Tarpaulins/Covers/Agricultural films
(Clauses 6.2, 6.3 and 6.8)

Sl No.	Characteristic	Requirement					Method of Test, Ref to IS No. Annex	
		XLN Extra Light	LN Light	MN Medium	HN Heavy	XHN Extra Heavy		
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	
i)	Mass per unit area, g/m ²	35 55 60	70 to 100	120 to 150	200 to 250	300	7016 (Part 1)	
ii)	Tensile strength ¹⁾ , Min, kg/cm ²						IS 13360 (Part 5/Sec 1) and IS 13360 (Part 5/ Sec 3) Test Conditions — Specimen Type 2 and test speed 500 mm/min	
	a) Longitudinal direction	250	250	250	250	250		-do-
	b) Transverse direction	200	200	200	200	200		-do-
	After ageing at 70±1°C for 168 h, Min, kg/cm ²							
	a) Longitudinal direction		30 percent decrease from the original					-do-
	b) Transverse direction		-do-					-do-
iii)	Elongation at break, Min, percent :							
	a) Longitudinal direction	300	400	400	400	400	-do-	
	b) Transverse direction	250	300	300	300	300	-do-	
iv)	Tear strength, Min, g :							
	a) Longitudinal direction	650	1200	2080	3200	4000	F	
	b) Transverse direction	450	900	1600	2800	3500	-do-	
	After ageing at 70±1°C for 168 h, Min, g:							
	a) Longitudinal direction		30 percent decrease from the original				-do-	
	b) Transverse direction		-do-				-do-	
v)	Dart impact strength, Min, g	100	250	400	700	800	Method B of IS 13360 (Part 5/Sec 6)	
vi)	Average tensile strength and elongation at break after exposing to UV radiation and weathering, Min (kgf)		50 percent of the original strength				G	