



Technical Data Sheet for Tarpaulin								
Sr. No.	Characteristics for	Test Method	Unit	Tolerance	Type-I		Type-II	
					Required Value	Obtained Value	Required Value	Obtained Value
1	No of HDPE fabric layer	IS: 7903: 2017	Nos	-	1	1	2	2
2	No of lamination layer	IS: 7903: 2017	Nos	-	2	2	3	3
3	Total number of layers in the finished tarpaulin	IS: 7903: 2017	Nos	-	3	3	5	5
4	Mass of finished tarpaulin	Annex-B as in IS: 7903: 2017	g/m ²	min.	200	205	250	252
5	Mass of laminated fabric	Annex-C as in IS: 7903: 2017	g/m ²	min.	185	188	230	231
6	Breaking Strength before UV Exposure, Warp Weft	IS:1969 (Part-1)	N	min.	1000	1050	1100	1200
					750	800	900	930
7	Elongation at break, Warp & Weft	IS:1969 (Part-1)	%	±5	20	21	20	20
8	Retention of breaking strength after UV exposure of 144 hrs., (Warp and Weft)	IS:13162(Part-2): 1991	N	Not less than 85 % of Sr. no.6	850	930	935	1050
					638	750	765	830
9	Welded seam strength before UV exposure, (weft)	IS:1969: 1985	N	Not less than 65 % of Sr. no.6	488	600	585	650
10	Retention of welded seam strength after UV exposure of 144 hr., (weft)	IS:13162(Part-2): 1991	N	Not less than 85 % of Sr. no.9	450	550	500	600
11	Carbon Black content	IS 2530: 1963	%	min.	2.50	2.55	2.50	2.52
12	Carbon dispersion	IS 2530: 1963	-	-	Uniform	Uniform	Uniform	Uniform
13	Trapezoid Tear strength	IS:14293:1995	N	min.	120	130	130	140
14	Puncture resistance	Annex-D as in IS:7903:2017	N	min.	300	310	350	370
15	Impact Failure load, at 1524 mm drop, gram force at 50 % failure	Annex-E as in IS:7903:2017	gf	min.	600	700	800	850
16	Colour fastness to light (for coloured tarpaulins)	IS: 2454: 1985	-	-	4 or Better	4 or Better	Not Applicable	Not Applicable
17	Water penetration by static pressure head test before ageing	IS:7940:1976	-	-	No Leakage	No Leakage	No Leakage	No Leakage
18	Water penetration by static pressure head test after ageing (168 hrs. at 70°C)	IS:7940:1976	-	-	No Leakage	No Leakage	No Leakage	No Leakage
19	Water repellence by cone test before ageing	IS:7941:1976	-	-	No Leakage	No Leakage	No Leakage	No Leakage
20	Water repellence by cone test after ageing(168 hrs. at 70°C)	IS:7941:1976	-	-	No Leakage	No Leakage	No Leakage	No Leakage
21	Ash Contain	Annex-F as in IS:7903:2017	%	Max.	3.00	2.50	3.00	2.00
22	Dimension	IS: 7903: 2017	-	(+3/-1)%	No negative tolerance			



Technical Data Sheet								
Sr. No.	Characteristics for	Test Method	Unit	Tolerance	Type-III		Type-IV	
					Required Value	Obtained Value	Required Value	Obtained Value
1	No of HDPE fabric layer	IS: 7903: 2017	Nos	-	2	2	2	2
2	No of lamination layer	IS: 7903: 2017	Nos	-	3	3	3	3
3	Total number of layers in the finished tarpaulin	IS: 7903: 2017	Nos	-	5	5	5	5
4	Mass of finished tarpaulin	Annex-B as in IS: 7903: 2017	g/m ²	min.	300	303	340	340
5	Mass of laminated fabric	Annex-C as in IS: 7903: 2017	g/m ²	min.	280	283	315	315
6	Breaking Strength before UV Exposure, Warp Weft	IS:1969 (Part-1)	N	min.	1200 1100	1300 1180	1400 1300	1500 1380
7	Elongation at break, Warp & Weft	IS:1969 (Part-1)	%	±5	20	21	20	23
8	Retention of breaking strength after UV exposure of 144 hrs., (Warp and Weft)	IS:13162(Part-2): 1991	N	Not less than 85 % of Sr. no.6	1020 935	1180 1050	1190 1105	1320 1275
9	Welded seam strength before UV exposure, (weft)	IS:1969: 1985	N	Not less than 65 % of Sr. no.6	715	800	845	950
10	Retention of welded seam strength after UV exposure of 144 hr., (weft)	IS:13162(Part-2): 1991	N	Not less than 85 % of Sr. no.9	608	700	720	850
11	Carbon Black content	IS 2530: 1963	%	min.	2.50	2.53	2.50	2.65
12	Carbon dispersion	IS 2530: 1963	-	-	Uniform	Uniform	Uniform	Uniform
13	Trapezoid Tear strength	IS:14293:1995	N	min.	150	160	175	190
14	Puncture resistance	Annex-D as in IS:7903:2017	N	min.	400	420	450	480
15	Impact Failure load, at 1524 mm drop, gram force at 50 % failure	Annex-E as in IS:7903:2017	gf	min.	900	1000	1000	1050
16	Colour fastness to light (for coloured tarpaulins)	IS: 2454: 1985	-	-	Not Applicable	Not Applicable	Not Applicable	Not Applicable
17	Water penetration by static pressure head test before ageing	IS:7940:1976	-	-	No Leakage	No Leakage	No Leakage	No Leakage
18	Water penetration by static pressure head test after ageing (168 hrs. at 70°C)	IS:7940:1976	-	-	No Leakage	No Leakage	No Leakage	No Leakage
19	Water repellence by cone test before ageing	IS:7941:1976	-	-	No Leakage	No Leakage	No Leakage	No Leakage
20	Water repellence by cone test after ageing(168 hrs. at 70°C)	IS:7941:1976	-	-	No Leakage	No Leakage	No Leakage	No Leakage
21	Ash Contain	Annex-F as in IS:7903:2017	%	max.	3.00	2.25	3.00	2.30
22	Dimension	IS: 7903: 2017	-	(+3/-1)%	No negative tolerance			