

Technical Data Sheet of Agro-textiles-High Density Polyethylene (HDPE) Woven beds for Vermiculture, ISI Mark IS:15907

| Sr. No. | Characteristic(s) | Unit | Method of Test | Required Value | Obtained value |
|---------|--|---------------------|------------------------------------|---|--|
| 1 | Mass , Min | g/m ² | IS 1964 as in IS:15907 | 340 | 345 |
| 2 | Breaking Strength before UV Exposure, in Warp Weft | N | IS 1969 as in IS:15907 | 1900 1300 | 1950 1450 |
| 3 | Elongation at Break | % | IS 1969 as in IS 15907 | 20 ± 5 | 21 20 |
| 4 | Retention of breaking Strength after UV Exposure for 144 hr. & irradiation level 0.63 ± 0.03 w/m ² ,Min | N | Annex B and IS 1969 as in IS:15907 | 85% of original actual value (fabric),Sr no.-02 | 1755 1310 (90 % Value of sr. no.2) |
| 5 | Welded seam strength before UV Exposure ,Min | N | IS 1969 as in IS 15907 | 65% of original actual value (fabric),Sr no.-02 | 1235 (85 % Value of sr. no.2) |
| 6 | Welded seam strength after UV Exposure Min, | N | Annex B and IS 1969 as in IS:15907 | 85% of original actual value ,Sr no.-05 | 1115 (85 % Value of sr. no.5) |
| 7 | Tear Strength, Min | N | Method A2 of IS 7016 (part 3) | 100(Warp) 100(Weft) | 230 230 |
| 8 | Puncture strength, Min | N | Annex C as per IS:15907 | 325 | 350 |
| 9 | Environmental Stress Cracking test | - | Annex D as per IS:15907 | There shall be no evidenced of stress cracking | No evidenced of stress cracking |
| 10 | Resistance to chemicals, Change in the mass, Max. | % | Annex E as per IS:15907 | 0.10 | 0.080 |
| 11 | Colour Fastness to artificial light 1) | - | IS 2454 as in IS:15907 | 4 or better | 4 or better |
| 12 | Bursting Pressure Min | Kgs/cm ² | IS 1966 as in IS:15907 | 35 | 45 |
| 13 | Water penetration test before accelerated aging test | - | IS 7940 & IS 7941 as in IS:15907 | No Leakage | No Leakage |
| 14 | Water penetration test after Accelerated aging test at 70° for 168 hr. | - | IS 7940 & IS 7941 as in IS:15907 | No Leakage | No Leakage |
| 15 | Dimension | - | IS:15907 | No Negative Tolerance | No Negative Tolerance |