

**Agro textiles – Laminated high density polyethylene (HDPE) woven geomembrane for water proof lining – Specification (second revision)**

Geomembrane liners are effectively used for water conservation as well as environmental protection. Geomembranes in ponds and reservoirs prevent the water loss due to seepage, which maintains a consistent water level thus helping in water conservation. Geomembrane liners also serve as a barrier that prevents groundwater contamination by acting as a protective barrier between the water and the soil layer. Because of their flexible design and construction, they are able to easily accommodate to different pond shapes.

IS 15351 : 2015 Standard specifies the requirements for laminated high-density polyethylene (HDPE) woven geomembranes, designed for use as lining in canals, ponds, and reservoirs. This standard specifies four types of geomembranes, categorised by thickness: 0.25 mm, 0.50 mm, 0.75 mm, and 1.00 mm. Additionally, standard also specifies the requirement for puncture resistance, hydrostatic resistance and UV resistance to ensure the durability of geomembrane liners in all types of terrains and climatic conditions.