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(54) Title: EXPANDED MULTILAYER INTEGRAL GEOGRIDS AND METHODS OF MAKING AND USING SAME

(57) Abstract: An expanded multilayer integral geogrid includes a plurality of oriented strands interconnected by partially oriented junctions having an array of openings therein that is produced from a coextruded or laminated multilayer polymer starting sheet. The integral geogrid has a multilayer construction, with at least one inner layer thereof having a structure that is expanded relative to at least one other layer of the multiple layers. By virtue of the expanded inner layer structure, the expanded multilayer integral geogrid provides for increased layer compressibility under load, resulting in enhanced material properties that provide performance benefits to use of the expanded multilayer integral geogrid in soil geosynthetic reinforcement, and economic benefits compared to a like integral geogrid without an expanded inner layer structure.



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