

Title (en)

Manufacturing method of geogrid

Title (de)

Herstellungsverfahren für in Erdbau anwendbarem Gitter

Title (fr)

Méthode pour la fabrication de géorilles

Publication

**EP 0989216 B1 20041201 (EN)**

Application

**EP 98118203 A 19980925**

Priority

EP 98118203 A 19980925

Abstract (en)

[origin: EP0989216A1] An improved method for manufacturing polymeric geogrids is disclosed. The method includes the steps of: (a) co-spinning at least one high-melting point filament yarn with a plurality of low-melting point staple fibers to form a composite yarn, the low-melting point staple fiber has a melting point that is at least 10 SIMILAR 20 DEG C lower than the melting point of the high-melting point filament yarn; (b) weaving the composite yarn to form a net-structured fabrics; (c) heating the net-structured fabrics to cause the low-melting point staple fiber to melt and wrap about the high-melting point filament yarn; and (d) cooling the net-structured to form a geogrid. One of the main advantages of this process is that it does not require the coating step (with molten PVC or asphalt), as do the prior art processes. Thus, the geogrids can be manufactured in a more cost-effective and environmentally compatible manner. The geogrid of the present invention also exhibits substantially increased junction strength as well as retaining a greater portion of its ultimate strength at elongation.

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Cited by

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