

Title (en)  
GEOCELL FOR LOAD SUPPORT APPLICATIONS

Title (de)  
GEOZELLE FÜR LASTTRAGANWENDUNGEN

Title (fr)  
GÉOCELLULE POUR APPLICATIONS DE SUPPORT DE CHARGE

Publication  
**EP 3095920 A1 20161123 (EN)**

Application  
**EP 16176619 A 20080929**

Priority  
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• US 2008078065 W 20080929

Abstract (en)  
A geocell is disclosed that has high strength and stiffness, such that the geocell has a storage modulus of 500 MPa or greater at 23°C; a storage modulus of 150 MPa or greater at 63°C when measured in the machine direction using Dynamic Mechanical Analysis (DMA) at a frequency of 1 Hz; a tensile stress at 12% strain of 14.5 MPa or greater at 23°C; a coefficient of thermal expansion of  $120 \times 10^{-6} / ^\circ\text{C}$  or less at 25°C; and/or a long term design stress of 2.6 MPa or greater. The geocell is suitable for load support applications, especially for reinforcing base courses and/or subbases of roads, pavement, storage areas, and railways.

IPC 8 full level  
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Citation (search report)  
• [X] WO 2008105878 A1 20080904 - PRS MEDITERRANEAN LTD [IL], et al  
• [Y] JP H09228301 A 19970902 - RAILWAY TECHNICAL RES INST, et al  
• [Y] WO 9635833 A1 19961114 - TENSAR CORP [US], et al  
• [A] DE 4137310 A1 19930519 - AKZO NV [NL]

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**WO 2010036270 A1 20100401**; **WO 2010036270 A9 20110512**; AU 2008362137 A1 20100401; AU 2008362137 B2 20131003; BR PI0823100 A2 20150616; CA 2733055 A1 20100401; CA 2733055 C 20120103; CN 102165118 A 20110824; CN 102165118 B 20151202; DK 3095920 T3 20180319; EP 2337900 A1 20110629; EP 2337900 A4 20140910; EP 3095920 A1 20161123; EP 3095920 B1 20180117; ES 2663545 T3 20180413; HR P20180505 T1 20180504; HU E037772 T2 20180928; JP 2012504058 A 20120216; JP 5397790 B2 20140122; KR 101921395 B1 20181122; KR 20110079700 A 20110707; KR 20160104634 A 20160905; MX 2010007221 A 20101206; MX 355073 B 20180404; PL 3095920 T3 20180731; PT 3095920 T 20180420; RU 2011117166 A 20121110; RU 2478753 C2 20130410; SI 3095920 T1 20180629; ZA 201101925 B 20111130

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