

Title (en)
TRANSPARENT POLYAMIDE BLOCK AND POLYETHER BLOCK COPOLYMERS

Title (de)
TRANSPARENTE COPOLYMERE MIT POLYAMID- UND POLYÄTHERBLÖCKEN

Title (fr)
COPOLYMERES TRANSPARENTS BLOCS POLYAMIDES ET BLOCS POLYETHERS

Publication
EP 1560872 A1 20050810 (FR)

Application
EP 03778448 A 20031023

Priority
• FR 0303148 W 20031023
• FR 0213218 A 20021023

Abstract (en)
[origin: WO2004037898A1] The invention relates to polyamide block and polyether block copolymers in which: the polyether blocks essentially comprise PTMG having a number-average molar mass M_n of between 200 and 400 g/mol; the polyamide blocks comprise a linear (non-cyclic, non-branched) aliphatic semi-crystalline majority monomer and a sufficient quantity of at least one comonomer such that the crystallinity of said blocks is diminished while they remain immiscible with the amorphous polyether blocks; and the Shore D hardness is between 20 and 70. The inventive copolymers can be used to produce numerous different objects and, in particular, sports shoes.

IPC 1-7
C08G 69/40; **C08G 69/44**

IPC 8 full level
C08G 69/40 (2006.01); **C08G 69/44** (2006.01)

CPC (source: EP KR US)
C08G 65/00 (2013.01 - KR); **C08G 69/40** (2013.01 - EP KR US); **C08G 69/44** (2013.01 - EP KR US); **C08G 81/028** (2013.01 - KR); **C08G 2261/126** (2013.01 - KR)

Citation (search report)
See references of WO 2004037898A1

Cited by
EP1783156A1

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PT RO SE SI SK TR

DOCDB simple family (publication)
WO 2004037898 A1 20040506; AU 2003285447 A1 20040513; CA 2503074 A1 20040506; CN 1329431 C 20070801; CN 1708538 A 20051214; EP 1560872 A1 20050810; FR 2846332 A1 20040430; FR 2846332 B1 20041203; JP 2006503951 A 20060202; KR 100648878 B1 20061124; KR 20050067198 A 20050630; US 2005165210 A1 20050728

DOCDB simple family (application)
FR 0303148 W 20031023; AU 2003285447 A 20031023; CA 2503074 A 20031023; CN 200380102003 A 20031023; EP 03778448 A 20031023; FR 0213218 A 20021023; JP 2004546122 A 20031023; KR 20057007046 A 20050422; US 69082403 A 20031023