

Title (en)
POLYETHYLENE COMPOSITION

Title (de)
POLYETHYLENZUSAMMENSETZUNG

Title (fr)
COMPOSITION À BASE DE POLYÉTHYLÈNE

Publication
EP 4017914 A1 20220629 (EN)

Application
EP 19940795 A 20190806

Priority
RU 2019000556 W 20190806

Abstract (en)
[origin: WO2021025578A1] The inventions relate to composite materials based on mixtures of polyethylene of various structures having improved compatibility of the components. The composition is used in the construction, transport, cable and pipe industries, in the production of packaging materials and products obtained by foaming. The polyethylene composition contains in wt.%, based on the total weight of the composition 20-84 low-density polyethylene (LDPE), 10-70 high-density polyethylene (HDPE), 5-25 linear low-density polyethylene (LLDPE), 0.5-10 polypropylene (PP) and 0-20 other additives. The inventions provide the production of compositions based on polyethylene mixtures with increased melt strength, which allows to obtain products by foaming, as well as improved deformation and strength properties, surface hardness and heat resistance.

IPC 8 full level
C08L 23/04 (2006.01); **C08J 3/02** (2006.01); **C08J 5/00** (2006.01); **C08L 23/06** (2006.01)

CPC (source: EP)
C08J 3/005 (2013.01); **C08J 9/0061** (2013.01); **C08L 23/04** (2013.01); **C08L 23/06** (2013.01); **C08J 2323/06** (2013.01); **C08J 2423/06** (2013.01); **C08J 2423/08** (2013.01); **C08J 2423/12** (2013.01); **C08L 2203/14** (2013.01); **C08L 2205/025** (2013.01); **C08L 2205/035** (2013.01)

C-Set (source: EP)
1. **C08L 23/06 + C08L 23/06 + C08L 23/0815 + C08L 23/12**
2. **C08L 23/04 + C08L 23/06 + C08L 23/0815 + C08L 23/12**

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
WO 2021025578 A1 20210211; CN 114269827 A 20220401; CN 114269827 B 20240823; EP 4017914 A1 20220629; EP 4017914 A4 20230503

DOCDB simple family (application)
RU 2019000556 W 20190806; CN 201980098956 A 20190806; EP 19940795 A 20190806