

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization

International Bureau

(43) International Publication Date
24 June 2021 (24.06.2021)



(10) International Publication Number
WO 2021/122783 A1

(51) International Patent Classification:

C08J 5/18 (2006.01) C08J 9/00 (2006.01)

C08L 23/12 (2006.01)

MC, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK, SM,
TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW,
KM, ML, MR, NE, SN, TD, TG).

(21) International Application Number:

PCT/EP2020/086475

Published:

— with international search report (Art. 21(3))

(22) International Filing Date:

16 December 2020 (16.12.2020)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

19216557.9 16 December 2019 (16.12.2019) EP

(71) Applicants: **ABU DHABI POLYMERS CO. LTD**

(**BOROUGE**) **L.L.C.** [AE/AE]; P.O. Box 6925, Sheikh

Khalifa Energy Complex, Corniche Road, Abu Dhabi (AE).

BOREALIS AG [AT/AT]; IZD Tower, Wagramer Str.
17-19, 1220 Vienna (AT).

(72) Inventors: **VAN HOUCKE, Daniel**; P.O. Box 6951, Bor-

ouge Pte Ltd, Abu Dhabi Branch, Sheikh Khalifa Energy

Complex, Corniche Road Abu Dhabi (AE). **TENORIO,**

Emelito; P.O. Box 6951, Borouge Pte Ltd, Abu Dhabi

Branch, Sheikh Khalifa Energy Complex, Corniche Road

Abu Dhabi (AE).

(74) Agent: **MAIWALD PATENTANWALTS- UND**

RECHTSANWALTSGESELLSCHAFT MBH; Elisen-

hof, Elisenstraße 3, 80335 München (DE).

(81) Designated States (unless otherwise indicated, for every

kind of national protection available): AE, AG, AL, AM,

AO, AT, AU, AZ, BA, BB, BG, BH, BN, BR, BW, BY, BZ,

CA, CH, CL, CN, CO, CR, CU, CZ, DE, DJ, DK, DM, DO,

DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN,

HR, HU, ID, IL, IN, IR, IS, IT, JO, JP, KE, KG, KH, KN,

KP, KR, KW, KZ, LA, LC, LK, LR, LS, LU, LY, MA, MD,

ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO,

NZ, OM, PA, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW,

SA, SC, SD, SE, SG, SK, SL, ST, SV, SY, TH, TJ, TM, TN,

TR, TT, TZ, UA, UG, US, UZ, VC, VN, WS, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every

kind of regional protection available): ARIPO (BW, GH,

GM, KE, LR, LS, MW, MZ, NA, RW, SD, SL, ST, SZ, TZ,

UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, RU, TJ,

TM), European (AL, AT, BE, BG, CH, CY, CZ, DE, DK,

EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV,

(54) Title: FOAMED POLYPROPYLENE COMPOSITION SUITABLE FOR SHEETS AND ARTICLES

(57) Abstract: The present invention relates to a foamed polypropylene composition comprising (A) from 60.0 to 95.0 wt% of a linear propylene homopolymer and (B) from 5.0 to 40.0 wt% of a low density polyethylene, based on the total weight of the polypropylene composition, wherein the polypropylene composition before foaming has a melt flow rate MFR₂ of from 0.1 to 5.0 g/10 min, determined according to ISO 1133 at a load of 2.16 kg and a temperature of 230°C, and a F₃₀ melt strength of from 0.1 to 2.0 cN, determined according to ISO 16790:2005, a sheet comprising said foamed polypropylene composition, an article comprising said sheet, a process for producing said sheet and the use of said foamed polypropylene composition or said sheet for producing an article.

WO 2021/122783 A1