



(51) International Patent Classification:

C08K 5/00 (2006.01) C09K 21/08 (2006.01)
C08L 55/02 (2006.01) C09K 21/14 (2006.01)
C08L 69/00 (2006.01)

(21) International Application Number:

PCT/US2024/011911

(22) International Filing Date:

18 January 2024 (18.01.2024)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

63/480,783 20 January 2023 (20.01.2023) US

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(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, CV, CZ, DE, DJ, DK, DM,
DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT,
HN, HR, HU, ID, IL, IN, IQ, IR, IS, IT, JM, JO, JP, KE, KG,
KH, KN, KP, KR, KW, KZ, LA, LC, LK, LR, LS, LU, LY,
MA, MD, MG, MK, MN, MU, 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, CV,
GH, GM, KE, LR, LS, MW, MZ, NA, RW, SC, 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, MC, ME, 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).

Published:

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

(54) Title: ENCAPSULATED FLAME RETARDANT COMPOSITIONS, METHODS OF MAKING ENCAPSULATED FLAME
RETARDANT COMPOSITIONS, AND ARTICLES INCLUDING THE ENCAPSULATED FLAME RETARDANT COM-
POSITIONS

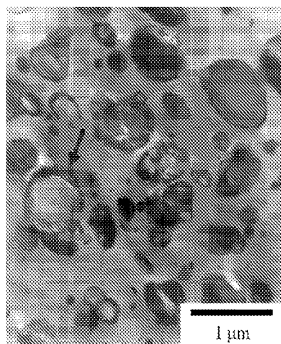


FIG. 22A

(57) Abstract: In one aspect, the disclosure relates to flame-retardant plastic compositions including a polymeric component and a brominated flame retardant (BrFR), wherein the BrFR includes one or more particles at least partially encapsulated by a thermoplastic toughener. In some aspects, encapsulation can take the form of a core-shell structure wherein the shell has an average thickness of about 5 nm to 10 μm. The thermoplastic toughener can be selected from a styrenic block copolymer, a thermoplastic polyurethane, a nitrile butadiene rubber, an acrylic elastomer, a copolyester elastomer, a thermoplastic polyether ester elastomer, a thermoplastic amide ether elastomer, a chlorinated rubber, an ionomer, a thermoplastic vulcanizate, and combinations thereof. The flame-retardant plastic compositions additionally include a filler and/or a compatibilizer. Also disclosed are methods for making the flame-retardant plastic compositions and articles made from the compositions.