

Title (en)
THERMOPLASTIC ELASTOMER-SILICONE COMPOSITION

Title (de)
THERMOPLASTISCHE ELASTOMERSILIKONZUSAMMENSETZUNG

Title (fr)
COMPOSITION THERMOPLASTIQUE ÉLASTOMÈRE - SILICONE

Publication
EP 3740535 A1 20201125 (FR)

Application
EP 19703776 A 20190115

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• FR 2019050075 W 20190115

Abstract (en)
[origin: WO2019138202A1] The invention relates to a composition comprising: - (A) a copolymer with rigid blocks and flexible blocks (TPE), - (B) a non-crosslinked polysiloxane silicone, preferably a non-crosslinked organopolysiloxane, - optionally, (C) a compatibilizing agent improving the compatibility between the TPE and the silicone, said compatibilizing agent (C) being selected from among a polyolefin or a mixture of several polyolefins.

IPC 8 full level
C08L 77/02 (2006.01); **C08G 69/40** (2006.01); **C08G 77/448** (2006.01); **C08G 77/458** (2006.01); **C08L 53/02** (2006.01); **C08L 83/10** (2006.01)

CPC (source: EP KR US)
C08G 69/40 (2013.01 - EP KR); **C08G 77/448** (2013.01 - KR); **C08G 77/458** (2013.01 - KR); **C08J 3/201** (2013.01 - US); **C08L 53/025** (2013.01 - KR); **C08L 77/02** (2013.01 - EP KR); **C08L 83/10** (2013.01 - KR); **C08L 87/005** (2013.01 - US); **C08G 77/448** (2013.01 - EP); **C08G 77/458** (2013.01 - EP); **C08L 2203/20** (2013.01 - US); **C08L 2205/02** (2013.01 - US); **C08L 2205/03** (2013.01 - EP KR US); **C08L 2205/035** (2013.01 - US); **C08L 2205/08** (2013.01 - US); **C08L 2207/04** (2013.01 - US)

C-Set (source: EP)
1. **C08L 77/02** + **C08L 83/10**
2. **C08L 77/02** + **C08L 83/10** + **C08L 53/025**
3. **C08L 77/02** + **C08L 53/025** + **C08L 83/10**

Citation (search report)
• [XII] US 2015025197 A1 20150122 - GAROIS NICOLAS [FR], et al
• [XII] CN 104277322 A 20150114 - HEFEI GENIUS NEW MAT CO LTD
• [A] US 2002018866 A1 20020214 - LEE JEONG S [US], et al
• [XII] MOHAMMAD ALI SEMSARZADEH ET AL: "Preparation and Characterization of Polyurethane-Polydimethylsiloxane/Polyamide12-b-Polytetramethylene Glycol Blend Membranes for Gas Separation", IRANIAN JOURNAL OF POLYMER SCIENCE & TECHNOLOGY (PERSIAN), vol. 26, no. 4, 24 November 2013 (2013-11-24), Iran, pages 337 - 348, XP055511106, ISSN: 1016-3255
• [XII] M. P. DRUPITHA ET AL: "Compatibilized TPU-PDMS blends: Pros and cons of melt mixing and solution mixing techniques : ARTICLE", JOURNAL OF APPLIED POLYMER SCIENCE, vol. 134, no. 31, 19 April 2017 (2017-04-19), pages 45164, XP055511382, ISSN: 0021-8995, DOI: 10.1002/app.45164
• See also references of WO 2019138202A1

Designated contracting state (EPC)
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Designated extension state (EPC)
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WO 2019138202 A1 20190718; CN 111601852 A 20200828; CN 111601852 B 20240326; EP 3740535 A1 20201125; FR 3076834 A1 20190719; FR 3076834 B1 20200821; KR 20200108052 A 20200916; US 2021087399 A1 20210325; US 2024084140 A1 20240314

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FR 2019050075 W 20190115; CN 201980008550 A 20190115; EP 19703776 A 20190115; FR 1850303 A 20180115; KR 20207023301 A 20190115; US 201916961984 A 20190115; US 202318509456 A 20231115