

Title (en)
POLYMERIZABLE COMPOSITION

Title (de)
POLYMERISIERBARE ZUSAMMENSETZUNG

Title (fr)
COMPOSITION POLYMÉRISABLE

Publication
EP 4048708 A1 20220831 (DE)

Application
EP 20800601 A 20201029

Priority
• DE 102019129551 A 20191031
• EP 2020080376 W 20201029

Abstract (en)
[origin: WO2021083995A1] The invention relates to a polymerizable composition comprising (i) 0 to 90 wt.% of at least one inorganic filler component, (ii) 5 to 99.98 wt.% of at least one urethane(alkyl)acrylate of the idealized formula I, (iii) 0.01 to 25 wt.% of at least one di-, tri-, tetra- or multifunctional monomer which is not urethane(alkyl)acrylate, and (iv) 0.01 to 10 wt.% of at least one initiator, an initiator system, optionally at least one stabilizer, and optionally at least one pigment, wherein the total composition of the composition is 100 wt.%. The invention also relates to a polymerized composition with improved fracture toughness.

IPC 8 full level
C08F 2/48 (2006.01); **C08F 222/10** (2006.01); **C08K 3/013** (2018.01)

CPC (source: EP US)
B33Y 70/10 (2020.01 - US); **C08F 2/48** (2013.01 - EP); **C08F 222/1065** (2020.02 - EP); **C08F 222/22** (2013.01 - US); **C08K 3/013** (2018.01 - EP); **C08K 13/06** (2013.01 - US); **C09D 4/00** (2013.01 - US); **C09D 7/48** (2018.01 - US); **C09D 7/62** (2018.01 - US); **C09D 7/63** (2018.01 - US); **C09D 135/02** (2013.01 - US); **B29C 64/135** (2017.08 - US); **B29K 2033/04** (2013.01 - US); **B29K 2105/0002** (2013.01 - US); **B29K 2509/00** (2013.01 - US); **B33Y 10/00** (2014.12 - US); **C08F 2800/20** (2013.01 - US); **C08K 3/16** (2013.01 - US); **C08K 3/36** (2013.01 - US); **C08K 3/40** (2013.01 - US); **C08K 5/132** (2013.01 - US); **C08K 9/04** (2013.01 - US); **C08K 2003/2241** (2013.01 - US); **C08K 2201/005** (2013.01 - US); **C08K 2201/011** (2013.01 - US); **C08K 2201/014** (2013.01 - US)

C-Set (source: EP)
1. **C08F 222/1065 + C08F 222/1065 + C08F 222/102 + C08F 222/1065**
2. **C08F 222/1065 + C08F 222/1065 + C08F 222/1025 + C08F 222/1065**
3. **C08F 222/1065 + C08F 222/102 + C08F 222/1065 + C08F 222/1065 + C08F 222/1025 + C08F 222/1065**
4. **C08F 222/1065 + C08F 222/1025 + C08F 222/1065 + C08F 222/1065**
5. **C08F 222/1065 + C08F 222/1065 + C08F 222/1025**
6. **C08F 222/1065 + C08F 222/1065 + C08F 222/102**
7. **C08K 3/013 + C08L 35/02**

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