

CLAIMS

We claim:

1. A foam bead formed from a composition comprising:
(A) a silane-functionalized ethylene/ α -olefin multi-block interpolpolymer.
2. The foam bead of claim 1, wherein the composition comprises:
(A) the silane-functionalized ethylene/ α -olefin multi-block interpolpolymer; and
(B) an ethylene/ α -olefin multi-block interpolpolymer.
3. The foam bead of claim 1 or claim 2, wherein the foam bead has a gel content from 0% to 5%.
4. The foam bead of any one of claims 1–3, wherein the silane-functionalized ethylene/ α -olefin multi-block interpolpolymer has a density from 0.865 g/cc to 0.900 g/cc.
5. The foam bead of any one of claims 1–4, wherein the silane-functionalized ethylene/ α -olefin multi-block interpolpolymer has a melt index (I2) from 0.05 g/10 min to 5.0 g/10 min.
6. The foam bead of any one of claims 1–5, wherein the weight ratio of (B) ethylene/ α -olefin multi-block interpolpolymer and (A) silane-functionalized ethylene/ α -olefin multi-block interpolpolymer is from 0 to 2.50.
7. A sintered foam structure formed from foam beads that are formed from a composition comprising:
(A) a silane-functionalized ethylene/ α -olefin multi-block interpolpolymer.
8. The sintered foam structure of claim 7, wherein the composition comprises:
(A) the silane-functionalized ethylene/ α -olefin multi-block interpolpolymer; and
(B) an ethylene/ α -olefin multi-block interpolpolymer.
9. The sintered foam structure of claim 7 or claim 8, wherein the weight ratio of (B) ethylene/ α -olefin multi-block interpolpolymer and (A) silane-functionalized ethylene/ α -olefin multi-block interpolpolymer is from 0 to 2.50.
10. An article comprising at least one component formed from the sintered foam structure of any one of claims 7–9.