

20. A silicone crumb in accordance with claim 5 in which the silicon-bonded hydrogen-containing polysiloxane is a trimethylsiloxy endblocked polymethylhydrogensiloxane.

21. The silicone crumb rubber of claim 5 in which there are from about 30 to about 35 silicon-bonded hydrogen atoms per molecule of said silicon-bonded hydrogen-containing polysiloxane.

22. A method of making a silicone crumb comprising mixing and curing under low shear the following ingredients:

(A) a vinyl-containing polyorganosiloxane comprising diorganosiloxane units and triorganosiloxy endblock units in which the organic radicals of said diorganosiloxane units are monovalent hydrocarbon radicals or monovalent halogenated hydrocarbon radicals, and wherein at least 21.5 mole percent of said diorganosiloxane units are vinylorganosiloxane units;

(B) a silicon-bonded hydrogen-containing polysiloxane, the valences of the silicon atoms which are not satisfied by divalent oxygen atoms or silicon-bonded hydrogen atoms being satisfied by monovalent hydrocarbon radicals or monovalent halogenated hydrocarbon radicals, said silicon-bonded hydrogen-containing polysiloxane being present in an amount sufficient to cross-link from about 1.5 to about 20 mole percent vinylorganosiloxane units, based on total diorganosiloxane units, of said vinyl-containing polyorganosiloxane;

(C) a hydrosilation specific catalyst for the hydrosilation reaction of (A) and (B), the mixing being continued until a crumb rubber is formed, said crumb rubber having from 1.5 to 20 mole percent of said diorganosiloxane units comprising cross-linked vinyl-containing diorganosiloxane units, leaving the balance of said vinyl groups of said vinylorganosiloxane units unreacted, and wherein the amount of unreacted vinyl in the silicone crumbs rubber polymer chain is sufficient to prevent depolymerization of the polymer backbone.

23. The method in accordance with claim 22 in which the ingredients are mixed and heated to shorten the crumb cure time.

24. The method in accordance with claim 23 wherein the crumbing process is carried out in a closed chamber and reducing the pressure within the chamber during the crumbing process thereby removing unreacted and unreactable low molecular species and providing a crumb with a low weight loss.

25. The method in accordance with claim 22 in which the ingredients are cross-linked during cure to a material which has little or no measurable tensile strength at break and little or not measurable elongation at break as determined by the test procedure of ASTM-D-412.

26. The method in accordance with claim 22 wherein the crumbing process is carried out in a closed chamber and reducing the pressure within the chamber during the crumbing process thereby removing unreacted and unreactable low molecular species and providing a crumb with a low weight loss.

27. The crumb rubber of claim 22 in which the hydrogen-containing polysiloxane contains from about 30 to 35 silicon-bonded hydrogen atoms per molecule.

28. The method of claim 22 said vinyl containing polyorganosiloxane (A) is prepared in the presence of a fugitive catalyst.

29. The method of claim 28 wherein the vinylorganosiloxane content of said vinyl-containing polyorganosiloxane is in the range from 30 to 60 mole percent.

30. The method of claim 29 in which said vinyl-containing polyorganosiloxane has a molecular weight in the range from 20,000 to 60,000.

31. The method of claim 30 in which the diorganosiloxane units in said vinyl-containing polyorganosiloxane comprise methylvinylsiloxane units.

32. The method of claim 31 in which the silicon-bonded hydrogen-containing polysiloxane comprises a polymethylhydrogensiloxane.

33. The method of claim 32 in which there are from about 30 to about 35 silicon-bonded hydrogen atoms per molecule of silicon-bonded hydrogen-containing polysiloxane.

34. The method of claim 33 in which the triorganosiloxy endblock units of said vinyl-containing polyorganosiloxane comprise trimethylsiloxy endblock units, and in which the polymethylhydrogensiloxane is trimethylsiloxy endblocked.

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