

DEFENSIVE PUBLICATION

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PROCESS OF PREPARING POLYURETHANE POLYUREA FOAMS HAVING INTEGRAL SKIN

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No Drawing, 17 Pages Specification

A process for preparing a cellular polyurethane-polyurea composition having a resistant, strong molding skin that remains bonded to said cellular composition and exhibits no visible porosity to the naked eye, and a foam density greater than 150 grams per liter by

- (A) preparing a reaction mixture by mixing a polyisocyanate, a polyoxyalkylene polyol having an average molecular weight between about 130 and 6,000, an aromatic polyamine, a foaming agent, and a catalyst for the polyurethane-polyurea reaction the NH_2/OH ratio being between 0.3 and 5/1, the $\text{NCO}/\text{OH}+\text{NH}_2$ ratio being between 0.9 and 2/1, the amount of foaming agent being from 0.5 to 50 weight percent of the weight of the reaction mixture, the amount of catalyst being from 0 to 2 weight percent of the combined weight of said polyol and said aromatic polyamine, the mixing being carried out at a temperature in the range of about 0° to 140°C .;
- (B) introducing the reaction mixture into a mold, which is at a temperature between about 20° and 140°C ., wherein the reaction and expansion take place;
- (C) after completion of the expansion, placing the mold in an oven maintained at a temperature in the range of about 20° to 140°C .; and
- (D) after a period of from about 5 to 30 minutes removing the mold from said oven and demolding the resulting cellular composition.