

Liquid Polybutadiene resins as chemical intermediates

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Sartomer offers a large number of Functional Additives that function as chemical intermediates. These Functional Additives are low molecular weight polymers consisting of either homopolymers of butadiene or copolymers with styrene or caprolactone. They are reactive molecules that can react with peroxide, isocyanate, alcohol, amine to produce a network.

Sartomer's functional additives are used to produce chemicals that enhance performance properties in such applications as resin modification for coatings, emulsion polymerization, ionic exchange resins, and polymers. The reaction mechanisms include free radical such as UV/EB or peroxide, Michael addition reactions with an amine, or reactions with an isocyanate for an hydroxyl terminated intermediate.

This paper displays the reaction mechanisms for several Functional Additives and presents some of the features of the additives that can be used as chemical intermediates. The relationship between the chemical structures and the end use properties will be emphasised.

