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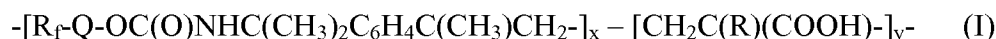
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(54) Title: HYDROPHILIC FLUORINATED SOIL RESIST COPOLYMERS



(57) Abstract: A copolymer of Formula (I) $-[R_f-Q-OC(O)NHC(CH_3)_2C_6H_4C(CH_3)CH_2-]_x - [CH_2C(R)(COOH)-]_y-$ (I) wherein R_f is a straight or branched perfluoroalkyl group having from about 2 to about 8 carbon atoms, or a mixture thereof, which is optionally interrupted by at least one oxygen atom, Q is alkylene of 1 to about 15 carbon atoms, hydroxyalkylene of from about 2 to about 15 carbon atoms, $-O(C_nH_{2n})-$, $-(CH_2CF_2)_m(CH_2)_n-$, $-OCHF_2CF_2(CH_2)_n-$, $-CONR^1(C_nH_{2n})-$, $-(C_nH_{2n})OCONR^1(C_nH_{2n})-$, $-(CONR^1CH_2)_2CH-$, $-SO_2N(R^1)(C_nH_{2n})-$, or $-(C_nH_{2n})SO_2N(R^1)(C_nH_{2n})-$, each R^1 is independently H or alkyl of 1 to about 4 carbon atoms, each n is independently 1 to about 15, each m is independently 1 to about 4, and R is H or CH_3 , x is a positive integer, and y is a positive integer, and a method of its use for imparting soil resistance to substrates while imparting minimal water repellency is disclosed.



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