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Reid et al.

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(54) **REACTIVE HOT MELT ADHESIVE**

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(57) **ABSTRACT**

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A hot melt curing urethane adhesives with heat stability, green bond strength and fully cured bond strength that are surprisingly compatible in production and use. The reactive hot melt adhesive composition includes a composition including an isocyanate compound; a polyester-polyol compound; a reactive tackifying resin including non-polar polyols; and a thermoplastic polymer. The components of the adhesive composition cooperate in at least some embodiments to form a hot melt compatible adhesive composition that has substantial initial green strength, substantial cured bond strength, chemical and heat resistance when cured, extended pot life, long open times, high heat resistance, (i.e., high PAFT), and good adhesion to plastics.

(51) **Int. Cl.**⁷ **C09J 175/06**

(52) **U.S. Cl.** **427/385.5; 525/54.42; 525/54.44; 525/125; 525/131; 525/438; 525/440**

(58) **Field of Search** 525/125, 131, 525/438, 440, 54.42, 54.44; 427/385.5

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37 Claims, No Drawings