

BARRIER PACKAGING WEBS HAVING METALLIZED NON-ORIENTED FILM

The present invention provides flexible packaging webs comprising a non-oriented metallized sealant film characterized by a secant modulus of less than 120,000 psi and an elongation at break of greater than 150%, wherein the non-oriented metallized sealant film comprises (1) a thermoplastic base layer of a material selected from the group consisting of ethylene/vinyl alcohol copolymer, ethylene/acrylic acid copolymer, ethylene/norbornene copolymer, polyamide and blends thereof; (2) a metal coating deposited on the base layer and having an optical density of 1.0 to 3.0; and (3) a heat sealing layer. The packaging webs of the present invention each exhibit an oxygen gas transmission rate of between 0 to 10.0 cm³/100 in²/24 hours at 73° F. (0 to 155 cm³/m²/24 hours at 23° C.) and 0% relative humidity and a water vapor transmission rate of between 0 to 0.1 g/100 in²/24 hours at 100° F. (0 to 1.55 g/m²/24 hours at 38° C.) and 90% relative humidity. The sealant films are formed by a blown coextrusion method.

Fig. 1