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Adhesion in Extrusion Coating

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Adhesion in Extrusion Coating
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Increasing the processing temperature increases the adhesion of LDPE to polar substrates such as aluminum foil. This is believed to be due to oxidation of the PE, forming polar groups that can bond to the foil. But high extrusion temperatures can cause smoking, gel formation and off-taste and odor problems. A better way to improve adhesion in some cases is to increase the distance between the die exit and the chill roll. This increases the time for oxidation as well as reduces stress.

– Barry Morris, DuPont

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