





Extrusion Coating A Demanding Process!

- Process at temps up to 630F!
- Oxidize (burn) surface to achieve chemical bond to substrate.
- Extrude in air gap with unsupported edges.
- Draw down to 1/100th of original thickness or less in milliseconds.
- Polymer acceleration rate, in air gap, similar to going from 0-60mph in less than 0.5s!
- All of this with minimal neck-in, stable edges, EBR, good gauge profile, no web breaks, minimal smoke, inclusion free, pinhole free & good release from chill roll....

Polyethylene to the rescue!!!























Resin Manufacturing Processes					
	LDPE	LLDPE	HDPE	mLLDPE	Copolymer
Autoclave	х				х
Tubular	Х				
Particle Form		x	Х	x	
Gas Phase		x	х	x	
Solution Form		x	Х	x	
		I	I		<u> </u>



























































Polyethylene Structures



Basic Molecular Properties Resin Type

