

Specialty product selections can be extremely difficult in today's market. Not only are there a tremendous number of resins available, but the small differences in polymer technology can make huge and sometimes unpredictable changes to final part performance. Entec Polymers aims to reduce confusion and re-work by providing a roadmap of a few front-running technologies. Follow these quick comparison charts and product explanations to choose the right product for your application whether that is an engineered part, a packaging product, an automotive part, a custom compound, or any other high performance application.



AFFINITY™
For film sealant, clarity & toughness



**ENGAGE™ or VLDPE/
FLEXOMER™**
For durability & low temp toughness



Styrolux®
As a clear & shatter resistant option



INFUSE™
For soft touch & improved compression set



VERSIFY™
For thinwall PP impact modification



Styroflex®
For high elasticity & puncture resistance

	What is it?	Clarity	Blending with PE	Blending with PP	Taste & Odor	Cold Temp Impact	High Temp Ability	Sealant Resin	Elastic Recovery
AFFINITY	Ethylene/Octene Copolymer from Dow	High Performance	Moderate Performance	Not Recommended	Not Recommended	Not Recommended	Not Recommended	High Performance	High Performance
ENGAGE	Ethylene/Octene or Ethylene/Butene Copolymer from Dow	Not Recommended	High Performance	High Performance	Not Recommended	High Performance	Not Recommended	High Performance	High Performance
INFUSE	Olefin Block Copolymer from Dow	Not Recommended	High Performance	High Performance	High Performance	Not Recommended	High Performance	High Performance	High Performance
Styroflex	Styrene/Butadiene Block Copolymer from Styrolution	High Performance	High Performance	Not Recommended	Not Recommended	High Performance	High Performance	High Performance	High Performance
Styrolux	Styrene/Butadiene Block Copolymer from Styrolution	High Performance	High Performance	Not Recommended	Not Recommended	High Performance	High Performance	High Performance	High Performance
VERSIFY	Propylene/Ethylene Copolymer from Dow	Not Recommended	High Performance	High Performance	High Performance	Not Recommended	Not Recommended	High Performance	High Performance
VLDPE	Very Low Density Polyethylene	Not Recommended	High Performance	Not Recommended	Not Recommended	Not Recommended	Not Recommended	High Performance	High Performance

High Performance Moderate Performance Not Recommended

ORIGINAL DESIGN	
AFFINITY	<ul style="list-style-type: none"> Made for PE film Added sealant properties Tear & puncture resistance
ENGAGE	<ul style="list-style-type: none"> Ideal for PE durable goods Adds toughness Cold temperature impact resistance & soft touch
INFUSE	<ul style="list-style-type: none"> An offset to TPE compounds Higher temperature resistance Lower compression set than traditional olefins
Styroflex	<ul style="list-style-type: none"> Made for increased elasticity Added tear & puncture resistance for films
Styrolux	<ul style="list-style-type: none"> Used as a higher toughness Shatterproof styrenic material
VERSIFY	<ul style="list-style-type: none"> Made for PP film & durable goods Adds toughness & soft touch
VLDPE/ FLEXOMER	<ul style="list-style-type: none"> A lower density extension of the regular butene LLDPE resins Product line is a highly economic impact modifier

UNIQUE APPLICATION IDEAS:

All of these products can be used either in blends or independently, however, there are some unique spaces where individual product functionality stands out. Here are some examples:

STATIC CLING FILMS

Capitalize on the polarity of **Styroflex** resins to create films that will adhere to a variety of polar and non-polar substrates

COMPATIBILIZERS

When PP needs to bond to PE, consider products such as **VERSIFY**, **INFUSE** or **Styroflex** for the necessary performance

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