Why **SWITCH** to a REXTAC APAO and Why Do It **NOW**?

For over three decades, REXTAC Amorphous Poly Alpha Olefins (APAOs) have been recognized as industry leading, high-quality polyolefin polymers capable of satisfying a wide range of applications and adhesive needs. Today, REXTAC polymers remain a great solution to hot melt adhesive challenges, and current market variables suggest the timing is right for a trial of REXtac's proprietary APAO.

Fundamentals behind our APAO:

REXTAC APAOs have excellent performance properties including:

- Low melt viscosity (Broad range of melt viscosities from 400 up to 8500 cps @ 375F)
- Good cohesive strength
- Wettability of the substrates
- Wide range of open times
- Excellent thermal stability
- Good UV stability
- Low odor
- Excellent compatibility with many raw materials (of similar chemical nature)

How do these properties SET US APART:

a) *Low viscosity* provides manufacturers flexibility in selecting their application method (spray, pump, roll coating, slot die) with application temperatures low enough to avoid distortion of even the thinnest plastic substrates. High melt viscosity adds cohesive strength.
b) REXtac polymers provide superior *adhesion* to a variety of substrates – PP, PE, PU, foam, paper, fiber, wood, PVC, and GI.
c) APAO's documented *thermal stability* decreases downtime by avoiding charring
d) Rextac polymer *open times* range from less than 5 seconds up to 900 seconds, providing you the customized solution you require
e) REXTAC APAOs have a density advantage over other formulated adhesives. REXtac polymers have a solid density between 0.85 to 0.88 g/cc, thus allowing ~~our~~ manufacturers to use less adhesive and obtain better mileage. With REXtac, manufacturers save money and increase margins.

Why NOW:

With the shift in petrochemical raw material feedstock prices and availability, APAO has a strong advantage in regards to price and supply security. There are a number of advantages in using REXTAC APAO as a base for formulated hot melt adhesives.

Because of the shift in ethylene cracker feedstock from heavy feeds (naptha) to lighter feeds (natural gas liquids), there are less higher carbon derivatives produced (C-4 and C-5). These higher carbon

derivatives are the base raw material for synthetic rubber, hydrocarbon tackifiers, and other hot melt formulating ingredients. This means the higher carbon derivatives become more expensive and harder to procure.

Why does this favor REXTAC APAO? First, it is derived from propylene (C-3) and ethylene (C-2) or butene-1 (C-4). These materials remain more available and cost competitive. More important, adhesives based on REXTAC APAO can be formulated with higher polymer content (up to 80-90% polymer) and less need for formulating ingredients that are short in supply. REXTAC APAO is unique in providing a low viscosity base polymer for maximizing the polymer content. In many cases, no formulation is required and REXtac APAO can be used neat as a hot melt adhesive further enhancing their value.

Let us help you capitalize on your adhesive performance as well as optimize the material cost savings. Contact us today!