

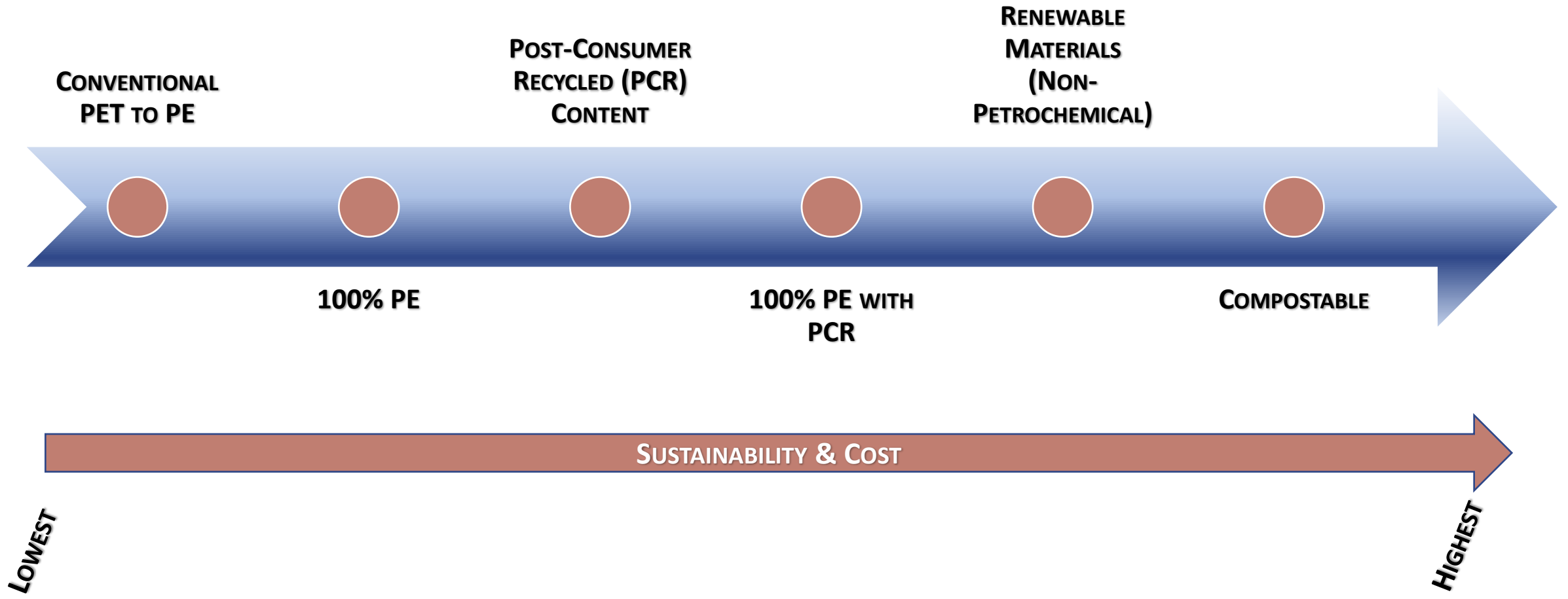


# SUSTAINABLE FLEXIBLE PACKAGING

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# SUSTAINABLE JOURNEY



**CHARACTERISTICS:**

- **UNMATCHED AVAILABILITY – MINIMAL SUPPLY CHAIN DISRUPTION/RISK**
- **NON-RECYCLABLE, NON-RENEWABLE**
- **SOURCED GLOBALLY & DOMESTICALLY**
- **FLEXIBILITY ON VOLUMES – SHORT RUNS TO VERY LARGE RUNS**
- **AVAILABLE IN ROLL STOCK, SIDE SEAL POUCHES, QUAD BAGS, STAND-UP POUCHES, FLAT-BOTTOM BOX POUCHES, PINCH-BOTTOM BOX POUCHES, FIN SEAL POUCHES, BAR WRAPS**

<b>OPTICS &amp; CLARITY</b>	<b>EXCELLENT</b>
<b>PUNCTURE RESISTANCE</b>	<b>EXCELLENT</b>
<b>STIFFNESS</b>	<b>HIGH</b>
<b>OXYGEN BARRIER</b>	<b>HIGH</b>
<b>MOISTURE BARRIER</b>	<b>HIGH</b>
<b>ABLE TO INCLUDE CLOSEABLE ZIPPERS</b>	<b>YES</b>
<b>EASY-OPEN / TEAR-ABLE</b>	<b>YES</b>
<b>SURFACE COATINGS</b>	<b>MATTE &amp; GLOSS</b>

**CHARACTERISTICS:**

- **STRONG AVAILABILITY - SOURCED GLOBALLY & DOMESTICALLY**
- **RECYCLABLE (TYPICALLY THROUGH STORE DROP-OFF PROGRAMS)**
- **FLEXIBILITY ON VOLUMES – SHORT RUNS TO VERY LARGE RUNS**
- **RECOMMENDED FOR ROLL STOCK, SIDE SEAL POUCHES, QUAD BAGS, STAND-UP POUCHES, FLAT-BOTTOM BOX POUCHES, PINCH-BOTTOM BOX POUCHES, FIN SEAL POUCHES, BAR WRAPS**
- **NOT RECOMMENDED FOR RETORT APPLICATIONS**
- **\*\*CONFIRM COMPATIBILITY WITH EXISTING CO-PACKERS / EQUIPMENT LINES**

<b>OPTICS &amp; CLARITY</b>	<b>EXCELLENT</b>
<b>PUNCTURE RESISTANCE</b>	<b>EXCELLENT</b>
<b>STIFFNESS</b>	<b>MEDIUM – MAY ENHANCE WITH ADDITIVES</b>
<b>OXYGEN BARRIER</b>	<b>MEDIUM – MAY ENHANCE WITH ADDITIVES</b>
<b>MOISTURE BARRIER</b>	<b>HIGH – EXCELLENT GREASE RESISTANCE</b>
<b>ABLE TO INCLUDE CLOSEABLE ZIPPERS</b>	<b>YES</b>
<b>EASY-OPEN / TEAR-ABLE</b>	<b>YES</b>
<b>SURFACE COATINGS</b>	<b>MATTE &amp; GLOSS</b>

**CHARACTERISTICS:**

- **VARIED AVAILABILITY – CAN BE SOURCED GLOBALLY & DOMESTICALLY BUT HIGHLY-DEPENDENT ON THE PRODUCT THE PACKAGE HOLDS – WE HAVE HIGHLY-TARGETED SPECS FOR OUR FILMS, SO PCR CAN LIMIT THOSE OPTIONS**
- **NOT RECYCLABLE ONCE PCR HAS BEEN ADDED**
- **DIFFICULT TO MAKE A 100% PCR POUCH – DIFFICULT TO MESSAGE THE VALUE TO A CUSTOMER IN A LIMITED POUCH FOOTPRINT**
- **\*\*CONFIRM COMPATIBILITY WITH EXISTING CO-PACKERS / EQUIPMENT LINES**
- **WINDOWED POUCHES REQUIRE DIFFERENT COMPOSITION TO ACHIEVE PERFECT CLARITY**

<b>OPTICS &amp; CLARITY</b>	<b>GOOD FOR PRINTED AREAS</b>
<b>PUNCTURE RESISTANCE</b>	<b>EXCELLENT</b>
<b>STIFFNESS</b>	<b>MEDIUM – MAY ENHANCE WITH ADDITIVES</b>
<b>OXYGEN BARRIER</b>	<b>VARIED</b>
<b>MOISTURE BARRIER</b>	<b>MEDIUM – CAN ADD SEALANT LAYER</b>
<b>ABLE TO INCLUDE CLOSEABLE ZIPPERS</b>	<b>YES</b>
<b>EASY-OPEN / TEAR-ABLE</b>	<b>YES</b>
<b>SURFACE COATINGS</b>	<b>MATTE &amp; GLOSS</b>

**CHARACTERISTICS:**

- **STRONG AVAILABILITY - SOURCED GLOBALLY & DOMESTICALLY – TIMING OF YEAR CAN IMPACT ON VERY LARGE RUNS**
- **ZERO CHANGE IN POUCH PERFORMANCE OR PACKABILITY / MACHINE PACKING**
- **RENEWABLE OPTIONS – BIO-BASED PE (CORN PLA, SUGAR CANE, SOY, SHELLS)**
- **FLEXIBILITY ON VOLUMES – SHORT RUNS TO VERY LARGE RUNS**
- **RECOMMENDED FOR ROLL STOCK, SIDE SEAL POUCHES, QUAD BAGS, STAND-UP POUCHES, FLAT-BOTTOM BOX POUCHES, PINCH-BOTTOM BOX POUCHES, FIN SEAL POUCHES, BAR WRAPS**

<b>OPTICS &amp; CLARITY</b>	<b>EXCELLENT</b>
<b>PUNCTURE RESISTANCE</b>	<b>EXCELLENT</b>
<b>STIFFNESS</b>	<b>HIGH</b>
<b>OXYGEN BARRIER</b>	<b>HIGH</b>
<b>MOISTURE BARRIER</b>	<b>HIGH</b>
<b>ABLE TO INCLUDE CLOSABLE ZIPPERS</b>	<b>YES</b>
<b>EASY-OPEN / TEAR-ABLE</b>	<b>YES</b>
<b>SURFACE COATINGS</b>	<b>MATTE &amp; GLOSS</b>

**CHARACTERISTICS:**

- LIMITED AVAILABILITY - SOURCED GLOBALLY & DOMESTICALLY
- UNDERDEVELOPED COMPOSTING INFRASTRUCTURE – DEPENDENT UPON CONSUMER BEHAVIOR
- REQUIRES BIO-PLASTIC ZIPPERS
- LIMITATIONS ON MATERIAL SOURCES – MEDIUM RUNS TO VERY LARGE RUNS
- RECOMMENDED FOR ROLL STOCK, SIDE SEAL POUCHES, QUAD BAGS, STAND-UP POUCHES, FLAT-BOTTOM BOX POUCHES, PINCH-BOTTOM BOX POUCHES, FIN SEAL POUCHES, BAR WRAPS – SUGGESTED FOR UNDER 1KG WEIGHTS

<b>OPTICS &amp; CLARITY</b>	<b>GOOD</b>
<b>PUNCTURE RESISTANCE</b>	<b>MEDIUM</b>
<b>STIFFNESS</b>	<b>MEDIUM</b>
<b>OXYGEN BARRIER</b>	<b>MEDIUM</b>
<b>MOISTURE BARRIER</b>	<b>MEDIUM</b>
<b>ABLE TO INCLUDE CLOSABLE ZIPPERS</b>	<b>YES</b>
<b>EASY-OPEN / TEAR-ABLE</b>	<b>YES</b>
<b>SURFACE COATINGS</b>	<b>MATTE &amp; GLOSS</b>

- **CONSIDER THE HOLISTIC LIFECYCLE IN YOUR PACKAGING CHOICE – ORIGIN, CONSUMER USAGE PATTERNS, ETC. – NOT JUST THE DATA POINTS ON THE SPEC SHEET IN YOUR SELECTION OF SUBSTRATE.**
- **THE SUSTAINABILITY JOURNEY IS AN EVOLUTION – WE CAN ITERATE & ADJUST SUBSTRATES OVERTIME TO IMPROVE YOUR MARGINS, AS SUSTAINABLE OPTIONS DO CARRY A PRICE PREMIUM OVER NON-SUSTAINABLE OPTIONS.**
- **MAKE SUSTAINABILITY A CORE ELEMENT IN THE INITIAL DESIGN PHASE – IT’S EASIER TO START FROM THE BEGINNING THAN TO PIVOT**
- **TESTING – WE SUGGEST TESTING SMALL RUNS WITH YOUR MANUFACTURERS & CO-PACKERS TO ENSURE THEIR EQUIPMENT CAN ACCOMMODATE THE DESIGN.**
- **EACH APPLICATION IS UNIQUE – WHILE WE HAVE GUIDELINES & RECOMMENDATIONS GIVEN THE PRODUCT YOU’RE PACKING, A THOUGHTFUL DISCUSSION & DESIGN MEETING IS A CRITICAL STEP TO ENSURE WE PROCEED IN THE RIGHT DIRECTION WITH ALL OF YOUR GOALS IN MIND.**





# THANK YOU!

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