



RUSTIMONIAL

AN ARMOR SUSTAINABILITY SUCCESS STORY

ARMOR HELPS NISSAN SAVE “GREEN” BY GOING GREEN

In 2019, Nissan moved its rust-prevention business to ARMOR, a decision that was both good for the environment and good for their bottom line. Before ARMOR, Nissan used a sewn-seal VCI poly bag that was expensive to manufacture; costly to ship; and was non-recyclable – wasting more than 16 tons of plastic unnecessarily. By switching to the ARMOR DEFENDER™ VCI bag, Nissan saved time, labor, resources and money – the details and results are highlighted below.

THE SITUATION

Industry: Automotive OEM

Previous VCI Application:

Sewn-Seal VCI Square Bag

- Competitor single layer (mono-extruded) VCI poly bag
- Expensive due to manual labor required to sew bags
- Costly to ship because bags are hand folded and take up space
- Ribbon material used for sewn seal is not recyclable – bags are thrown in landfill

THE SOLUTION

ARMOR VCI Application:

- Heat-Sealed ARMOR DEFENDER™ VCI Poly Bag
- Co-extruded to combine 3 layers of film
- VCI is strategically positioned on the inside layer of film closest to metal part, which reduces the amount of VCI resin used (without reducing performance) and saves money and resources
- Enhanced strength and barrier protection allows film to be down-gauged by 25-30% for additional cost and resource savings
- Use of heat seal means bags are 100% recyclable
- Utilizes 30% post-industrial recycled content

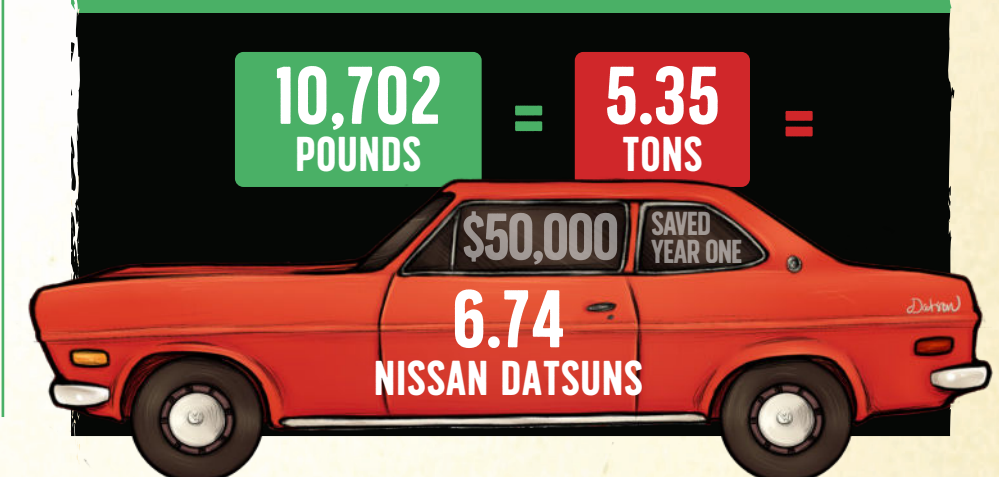
LBS PLASTIC USED MONO BAGS VS DEFENDER BAGS

SINGLE BAG DIMENSIONS			POUNDS OF PLASTIC USED		
LENGTH (IN)	48	MIL	6	CURRENT BAG	21,712 LBS
WIDTH (IN)	45.5	QTY	9,565	DEFENDER BAG	16,260 LBS
HEIGHT (IN)	62				

SINGLE BAG DIMENSIONS			POUNDS OF PLASTIC USED		
LENGTH (IN)	46	MIL	6	CURRENT BAG	21,489 LBS
WIDTH (IN)	45.5	QTY	12,210	DEFENDER BAG	16,239 LBS
HEIGHT (IN)	42				

POUNDS OF SAVINGS

YES, NISSAN REALLY SAVED THAT MUCH FILM FROM EVER BEING PRODUCED. TRUE FACTS!



BEFORE

SEWN SEAL
Non-recyclable
Expensive labor costs

AFTER

ARMOR DEFENDER™
100% recyclable
Down-gauged by 25-30% to
save money and resources
Utilizes 30% PIR

HEAT SEAL
Allows 100% recyclability
Eliminates labor/material costs