

PE composite with 30% recycled beverage carton as reinforcement supplemented with PolyAl also originated from beverage cartons (at least 97.5% recycled material). The suggested processing temperature is 170-190 °C. Drying is necessary before processing (70-80 °C, 3-4 hours).

Parameter	Method	Unit	Typical value
Melt flow index (190°C/2.16 kg)	ISO 1133-1	g/10 min	0.3
Density		kg/m ³	1134
Tensile modulus	ISO 527-1.2	MPa	1310
Tensile strength	ISO 527-1.2	MPa	24.2
Elongation at break	ISO 527-1.2	%	
Bending modulus	ISO 178	MPa	1270
Bending strength	ISO 178	MPa	23.6
Charpy impact strength (notched)	ISO 180/A	kJ/m ²	13.1

