



What Causes Global Warming?

One of the most important issues at twenty-first century is climate change

Temperatures on Earth are liveable because of a natural process called the greenhouse effect. When the sun's radiation reaches our atmosphere, some is reflected back into space, while some passes through and is absorbed by the Earth.

This causes the surface of the Earth to warm up. The heat from the Earth is radiated outward and absorbed by gases present in the Earth's atmosphere.

Carbon Dioxide is the gas most responsible for warming due to its abundance. Other greenhouse gases include CH₄, N_2O , HFC, PFC and SF₂.





Climate Change and Sustainability

The link between climate change and sustainable development

The Sustainable Development Goals(SDG) are an assembly of 17 interrelated global goals set up in 2015 by the United Nations General Assembly which are envisioned to be realized by 2030.

This goals aim to strengthen resilience and adaptive capacity to climate change related disasters; integrate climate change measures into policies and planning; build public knowledge and awareness of climate change and its impacts.





Sustainability is based on three dimensions:

Economic Sustainability

- Responsible Resource Management
 Long-Term Financial Stability
 Socially Responsible Business Practices

Environmental Sustainability

- Conservation and BiodiversityClimate Change MitigationSustainable Consumption and Production

Social Sustainability

- Social EquityCultural Diversity and InclusionHealth and Well-being





Sustainability

Sustainability Approach at Elastron



Reducing Waste Quantity



Reducing Carbon Footprint



Using Recycled Polymers



PCR (Post Consumer Recycled) PIR (Post Industrial Recycled)



Saving Natural Sources

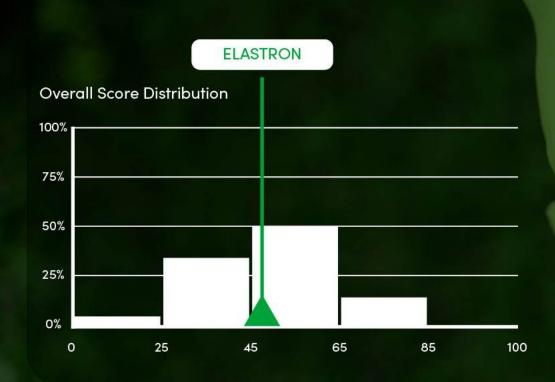


Saving Energy



EcoVadis Score Card

Elastron CSR management system assessed by EcoVadis







Elastron Product Coding System

C.G100.A65.B.2





Recycled TPV Compounds

Product Code	Туре	Recycled Content %	Recycled Type	Hardness Shore ASTM D2240	Density g/cm³ ASTM D792	Tensile Strength Mpa ASTM D412	Elongation at Break % ASTM D412
C.V860.A75.N.3	TPV	32	PIR/PCR	75A	0,95	6,50	550
C.V101.A90.B.2	TPV	25	PIR/PCR	90A	0,97	10,00	550
C.V101.A80.B.2	TPV	20	PIR/PCR	80A	0,97	7,00	600
C.V251.A75.B.2	TPV	20	PIR	75A	0,96	8,00	600
C.V101.A75.B.1	TPV	15	PIR/PCR	75A	0,96	7,00	600
C.V510.A65.B.EM.1	TPV	15	PIR/PCR	65A	0,90	7,00	850
C.V251.A67.B.1	TPV	15	PIR	67A	0,99	5,50	550
C.V100.A60.701	TPV	9	PIR/PCR	60A	0,96	5,00	600
C.V401.A55.B	TPV	2	PIR/PCR	55A	0,92	4,50	550



Recycled SEBS Compounds

Product Code	Туре	Recycled Content %	Recycled Type	Hardness Shore ASTM D2240	Density g/cm³ ASTM D792	Tensile Strength Mpa ASTM D412	Elongation at Break % ASTM D412
C.G100.A65.B.4	SEBS	45	PIR/PCR	65A	1,17	5,50	850
C.G100.A55.B.4	SEBS	45	PIR/PCR	55A	1,10	6,00	900
C.G261.A75.B.4	SEBS	40	PIR	75A	1,10	6,00	450
C.G261.A70.B.3	SEBS	38	PIR	70A	1,10	5,50	600
C.G150.A65.B.3	SEBS	38	PIR	65A	1,17	7,00	800
C.G441.D40.B.3	SEBS	30	PIR/PCR	40D	0,91	16,50	700
C.G260.A65.B.3	SEBS	30	PIR	65A	1,00	5,50	600
C.G303.A75.B.3	SEBS	30	PIR/PCR	75A	1,06	6,50	700



Recycled SEBS Compounds

Product Code	Туре	Recycled Content %	Recycled Type	Hardness Shore ASTM D2240	Density g/cm³ ASTM D792	Tensile Strength Mpa ASTM D412	Elongation at Break % ASTM D412
C.G903.A70.B.2	SEBS	26	PIR/PCR	70A	0,97	7,00	700
C.G100.A90.N.2	SEBS	24	PIR/PCR	90A	1,17	8,50	600
C.G301.A45.B.C.2	SEBS	20	PIR/PCR	45A	0,98	8,00	1000
C.G250.A65.B.1	SEBS	18	PIR	65A	0,94	7,00	950
C.G100.A75.N.1	SEBS	15	PIR/PCR	75A	1,17	7,50	750
C.G260.A65.B.1	SEBS	15	PIR	65A	1,00	5,00	600
C.G100.A65.N.1	SEBS	11	PIR/PCR	65A	1,17	6,00	800



Recycled SEBS Compounds

Product Code	Туре	Recycled Content %	Recycled Type	Hardness Shore ASTM D2240	Density g/cm³ ASTM D792	Tensile Strength Mpa ASTM D412	Elongation at Break ASTM D412
C.G100.A60.N.1	SEBS	10	PIR/PCR	60A	1,17	5,00	800
C.G100.A55.B.1	SEBS	10	PIR/PCR	55A	1,16	4,50	750
C.G303.A70.701	SEBS	9	PIR/PCR	70A	1,06	3,00	350
C.G303.A45.B.C	SEBS	7	PIR/PCR	45A	0,98	8,50	900



Recycled SBS Compounds

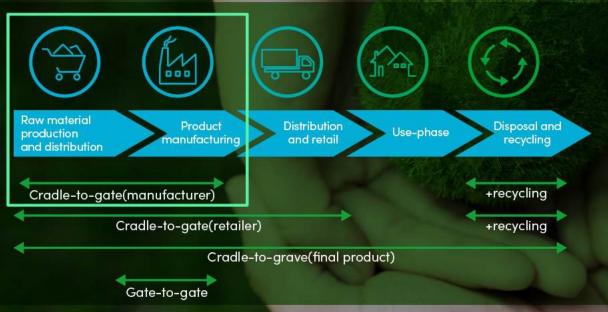
Product Code	Туре	Recycled Content %	Recycled Type	Hardness Shore ASTM D2240	Density g/cm³ ASTM D792	Tensile Strength Mpa ASTM D412	Elongation at Break ASTM D412
C.D101.A87.B.4	SBS	40	PIR/PCR	87A	1,12	6,50	500
D101.A87.B.P	SBS	21	PIR/PCR	87A	1,12	6,50	500



Life Cycle Assessment

A life cycle Product Carbon Footprint measures the total greenhouse gas emissions generated by a product, from extraction of raw materials, to end-of-life. It is measured in carbon dioxide equivalents (CO₂eq). The most widely accepted methodology: ISO 14044.

Alternative boundaries for calculation is below. Elastron uses cradle to gate boundaries.



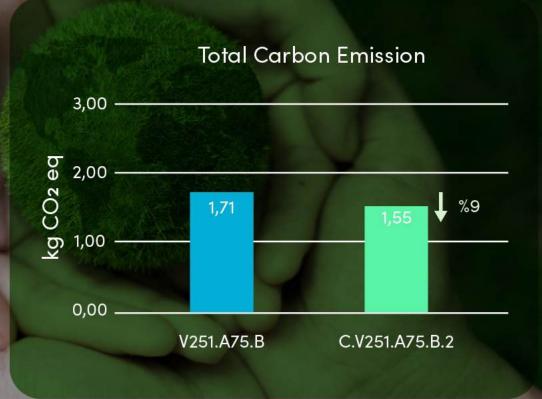
- Cradle to Gate, raw materials to finished goods (no end life considerations)
- Cradle to Grave, considers everything from harvesting materials to the disposal of the finished goods
- Gate to Gate, considers everything from receiving to shipping gate



Comparison of TPV-Based A75 Products

	V251.A75.B	C.V251.A75.B.2
Recycled Content, %	0	20
Hardness, Shore A	75	75
Density, g/cm³	0,96	0,96
Tensile Strength, Mpa	8	8
Elongation, %	600	600
%100 Modulus, Mpa	3,20	3
%300 Modulus, Mpa	4,70	4,50

Life Cycle Assessment

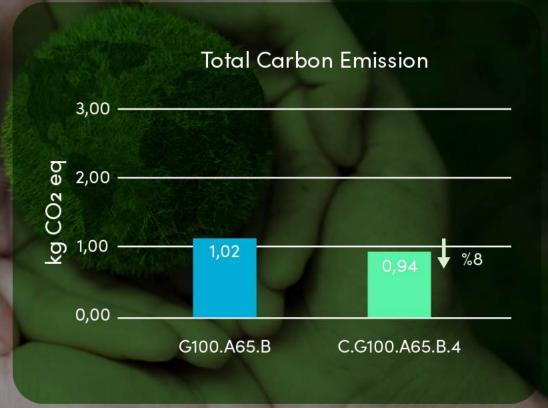




Comparison of SEBS-Based A65 Products

	G100.A65.B	C.G100.A65.B.4
Recycled Content, %	0	45
Hardness, Shore A	65	65
Density, g/cm³	1,17	1,17
Tensile Strength, Mpa	7,00	5,50
Elongation,%	750	850
%100 Modulus, Mpa	2,00	1,50
%300 Modulus, Mpa	3,40	2,40

Life Cycle Assessment

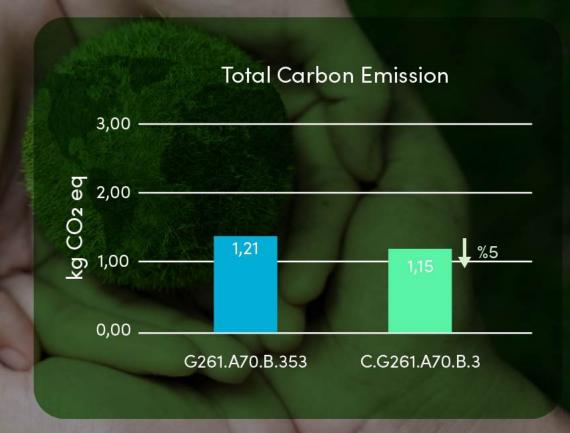




Life Cycle Assessment

Comparison of Crosslinked SBC-Based A70 Products

	G261.A70.B.353	C.G261.A70.B.3
Recycled Content, %	0	38
Hardness, Shore A	70	70
Density, g/cm³	1,10	1,10
Tensile Strength, Mpa	7	5,50
Elongation, %	500	600
%100 Modulus, Mpa	2,20	2,10
%300 Modulus, Mpa	4,20	3,90

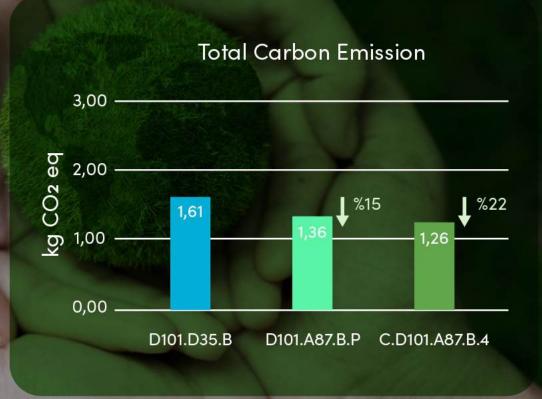




Comparison of SBS-Based A87 Products

	D101.D35.B	D101.A87.B.P	C.D101.A87.B.4
Recycled Content, %	0	22	40
Hardness, Shore	35D	87A	87A
Density, g/cm³	1,13	1,12	1,12
Tensile Strength, Mpa	7	6,50	6,50
Elongation, %	500	500	500
%100 Modulus, Mpa	5,30	5,10	5,10
%300 Modulus, Mpa	6,50	6,10	6,10

Life Cycle Assessment

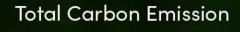




Life Cycle Assessment

LCA Analysis Examples

G201 Products





V201 Products

