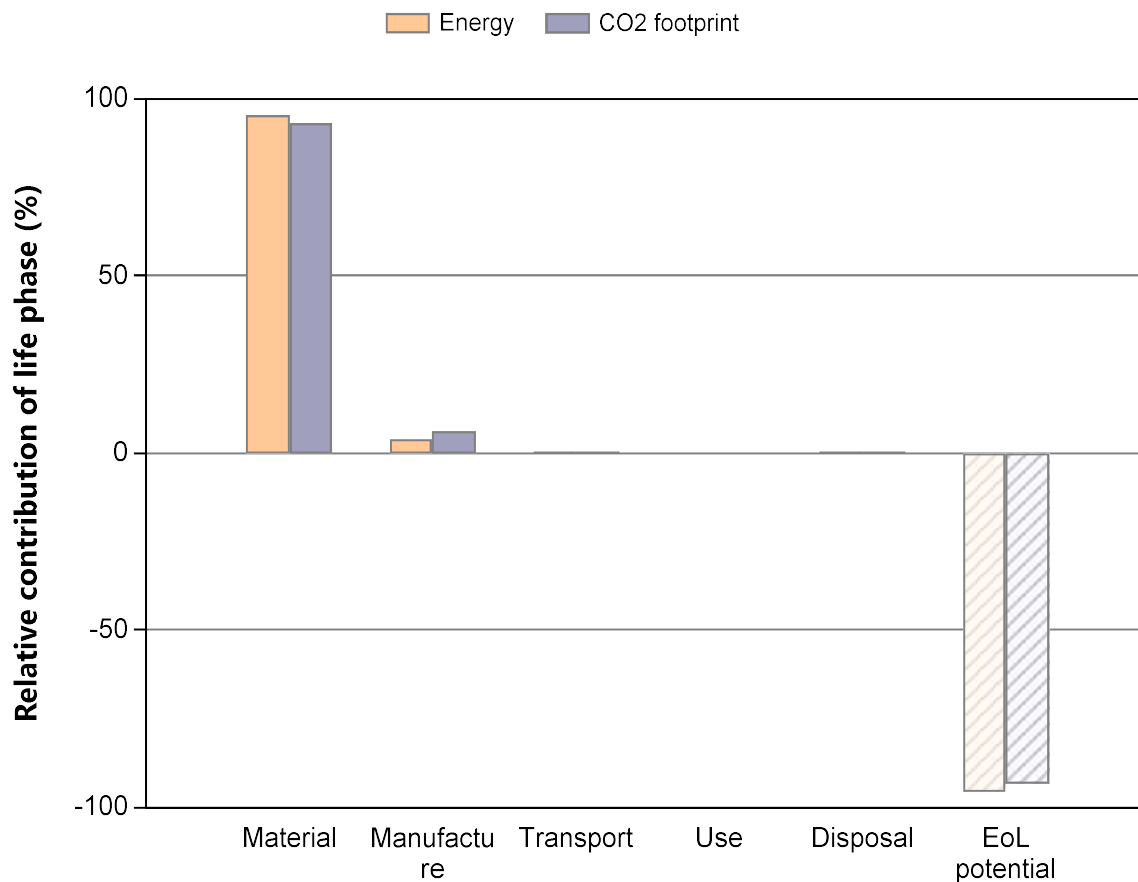


Eco Audit Report

Product name Composit shackle
Country of use Netherlands
Product life (years) 4

Summary:



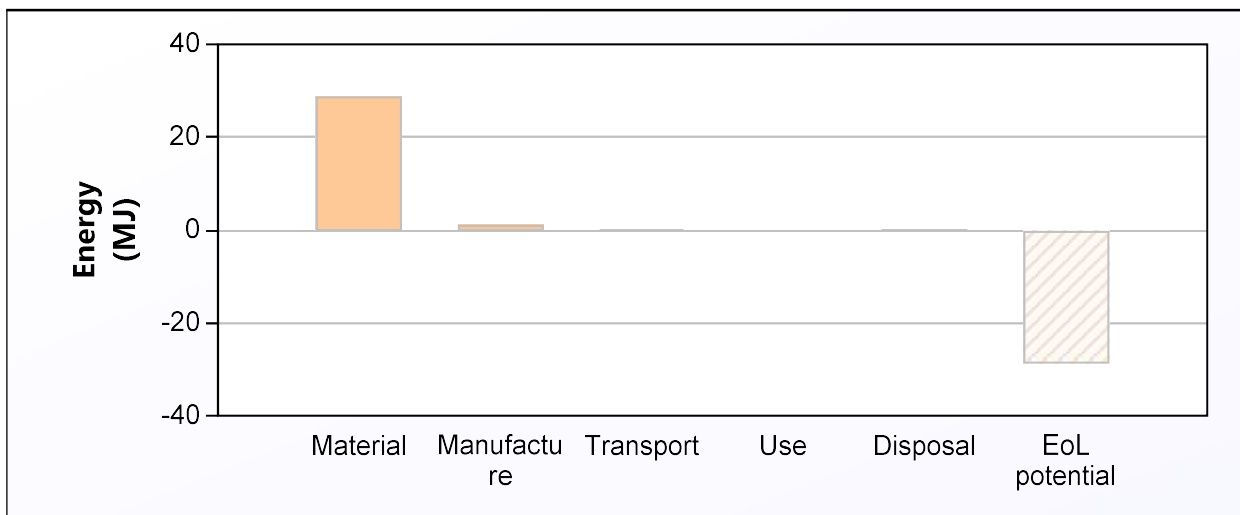
[Energy details](#)

[CO2 footprint details](#)

Phase	Energy (MJ)	Energy (%)	CO2 footprint (kg)	CO2 footprint (%)
Material	28,6	95,6	1,4	93,4
Manufacture	1,24	4,1	0,093	6,2
Transport	0,044	0,1	0,00317	0,2
Use	0	0,0	0	0,0
Disposal	0,04	0,1	0,0028	0,2
Total (for first life)	29,9	100	1,49	100
End of life potential	-28,6		-1,4	

Energy Analysis

[Summary](#)



	Energy (MJ/year)
Equivalent annual environmental burden (averaged over 4 year product life):	7,47

Detailed breakdown of individual life phases

Material:

[Summary](#)

Component	Material	Recycled content* (%)	Part mass (kg)	Qty.	Total mass (kg)	Energy (MJ)	%
Composite shackle	Polyamides (Nylons, PA)	Virgin (0%)	0,2	1	0,2	29	100,0
Total				1	0,2	29	100

*Typical: Includes 'recycle fraction in current supply'

Manufacture:

[Summary](#)

Component	Process	Amount processed	Energy (MJ)	%
Composite shackle	Polymer extrusion	0,2 kg	1,2	100,0
Total			1,2	100

Transport:

[Summary](#)

Breakdown by transport stage

Stage name	Transport type	Distance (km)	Energy (MJ)	%
factory to Marel	26 tonne (3 axle) truck	2e+02	0,044	100,0
Total		2e+02	0,044	100

Breakdown by components

Component	Mass (kg)	Energy (MJ)	%
Composite shackle	0,2	0,044	100,0
Total	0,2	0,044	100

Use:

[Summary](#)

Relative contribution of static and mobile modes

Mode	Energy (MJ)	%
Static	0	
Mobile	0	
Total	0	100

Disposal:

[Summary](#)

Component	End of life option	Energy (MJ)	%
Composite shackle	Reuse	0,04	100,0
Total		0,04	100

EoL potential:

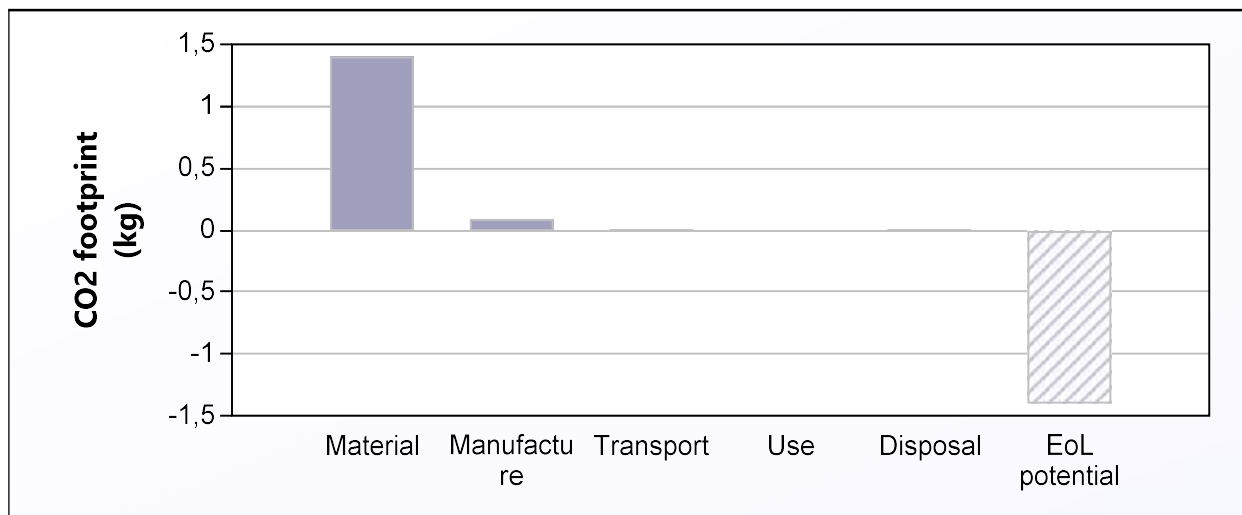
Component	End of life option	Energy (MJ)	%
Composite shackle	Reuse	-29	100,0
Total		-29	100

Notes:

[Summary](#)

CO2 Footprint Analysis

[Summary](#)



	CO2 (kg/year)
Equivalent annual environmental burden (averaged over 4 year product life):	0,374

Detailed breakdown of individual life phases

Material:

[Summary](#)

Component	Material	Recycled content* (%)	Part mass (kg)	Qty.	Total mass (kg)	CO2 footprint (kg)	%
Composite shackle	Polyamides (Nylons, PA)	Virgin (0%)	0,2	1	0,2	1,4	100,0
Total				1	0,2	1,4	100

*Typical: Includes 'recycle fraction in current supply'

Manufacture:

[Summary](#)

Component	Process	Amount processed	CO2 footprint (kg)	%
Composite shackle	Polymer extrusion	0,2 kg	0,093	100,0
Total			0,093	100

Transport:

[Summary](#)

Breakdown by transport stage

Stage name	Transport type	Distance (km)	CO2 footprint (kg)	%
factory to Marel	26 tonne (3 axle) truck	2e+02	0,0032	100,0
Total		2e+02	0,0032	100

Breakdown by components

Component	Mass (kg)	CO2 footprint (kg)	%
Composite shackle	0,2	0,0032	100,0
Total	0,2	0,0032	100

Use:

[Summary](#)

Relative contribution of static and mobile modes

Mode	CO2 footprint (kg)	%
Static	0	
Mobile	0	
Total	0	100

Disposal:

[Summary](#)

Component	End of life option	CO2 footprint (kg)	%
Composite shackle	Reuse	0,0028	100,0
Total		0,0028	100

EoL potential:

Component	End of life option	CO2 footprint (kg)	%
Composite shackle	Reuse	-1,4	100,0
Total		-1,4	100

Notes:

[Summary](#)