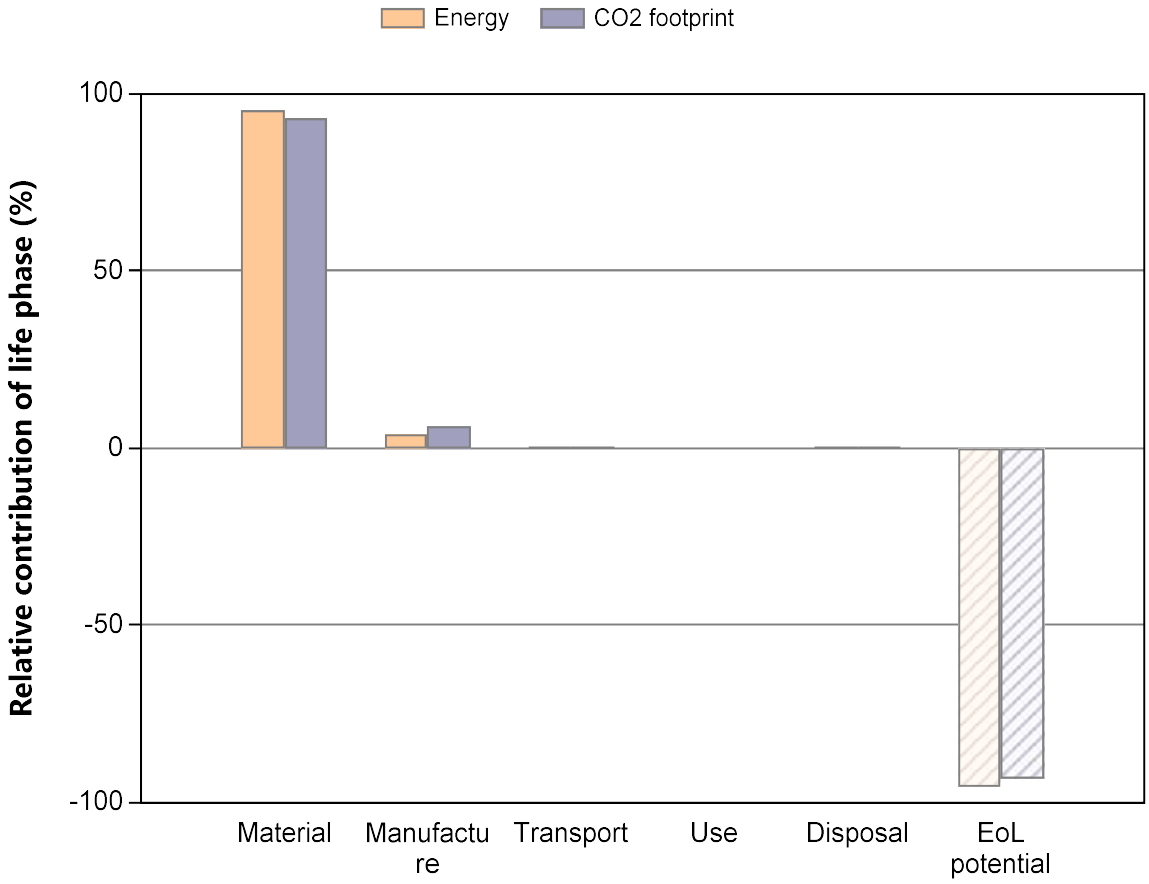
Eco Audit Report

Product name	Composit shackle
Country of use	Netherlands
Product life (years)	1

Summary:

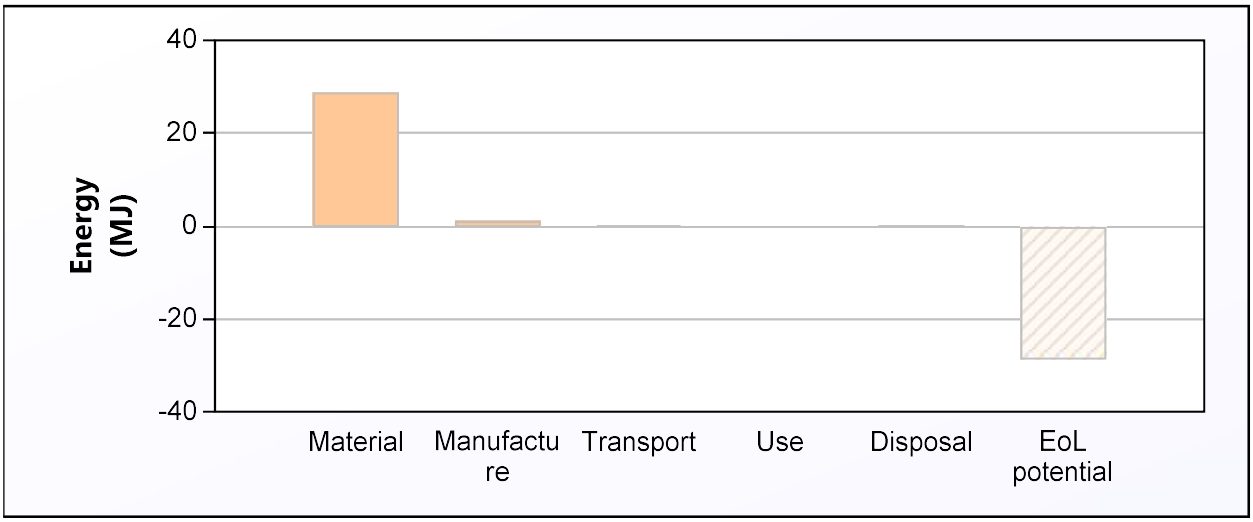


Energy details CO2 footprint details

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 1 year product life):	29,9

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:

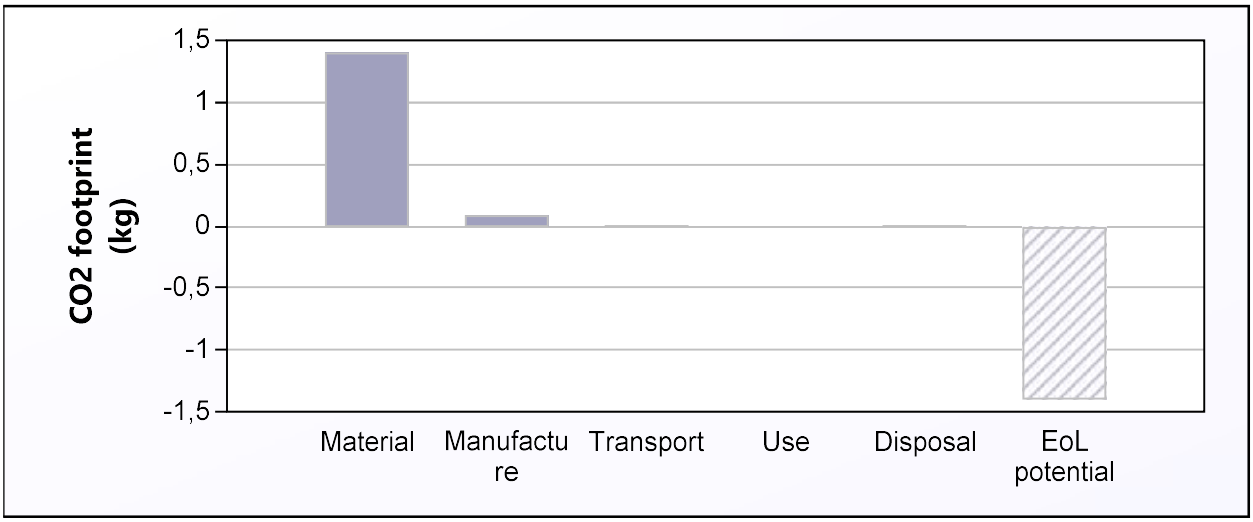
Component	End of life option	Energy (MJ)	%
Composite shackle	Reuse	-29	100,0
Total		**-29**	**100**

Notes:

Summary

CO2 Footprint Analysis

Summary



	CO2 (kg/year)
Equivalent annual environmental burden (averaged over 1 year product life):	1,49

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