

Poly(ethene) is a polymer made from ethene.

Poly(ethene) is used to make plastic bags.

Table 6 is from a life cycle assessment comparing paper bags and plastic bags.

best  
trees cutting CO2  
- photosynthesis  
won't run out  
with oxygen

	Paper bag	Plastic bag
Raw material	Wood (renewable)	Oil or gas (non-renewable)
Energy used to make in MJ	1.7	1.5
Solid waste produced in g	50	14 much better
Carbon dioxide produced in kg	0.23 (half the CO2)	0.53

landfill  
(recycled)

Evaluate which type of bags is more environmentally friendly.

[6 marks]

\* use actual figures  
Use data from Table 6 and your own knowledge to support your answer.