

RELATIVE MERITS OF ALTERNATIVES TO SINGLE-USE PLASTIC CARRIER BAGS

Materials most favoured by environmentally aware consumers nearer the top – but see Notes*. We include just one of many suppliers here, because this is an ethical, fair trade producer used by the iconic plastic-bag-free Modbury. "Consumer" = shops, distributors and shoppers.

Material	Advantages	Disadvantages	Source / further information
Hessian / jute	Environmental: long-life- reusable; bio-degradable at end of life. Consumer: sturdy, rigid, durable, can hold a lot; liked by green consumers.	Environmental: needs land, water, fertilizer to grow; biodegrading releases methane. Consumer: bulky.	http://www.reusethisbag.com/25-reasons-to-go-reusable.asp http://www.wrap.org.uk/retail/carrier_bags/carrier_bags.html
Organic cotton	Environmental: durable, reusable; better than non- organic; bio- degradable at end of life. Consumer: sturdy, can hold a lot; washable; liked by green consumers; thin ones very portable; heavy- weight ones easy to pack.	Environmental: land and water use in production; biodegrading releases methane. Consumer: limited organic colour range.	http://www.reusethisbag.com/25-reasons-to-go-reusable.asphttp://www.wrap.org.uk/retail/carrier_bags/carrier_bags.html http://www.bags2keep.co.uk/
Cotton	Environmental: long-life; reusable; biodegradable at end of life. Consumer: takes dyes well; sturdy, durable, can hold a lot; washable; thin ones very portable; heavy- weight ones easy to pack.	Environmental: land, water and chemical use in production; bio- degrading releases methane; chemical dyes. Consumer: few	http://www.reusethisbag.com/25-reasons-to-go-reusable.asp http://www.wrap.org.uk/retail/carrier_bags/carrier_bags.html http://www.bags2keep.co.uk/

Recycled fabrics	Environmental: re-uses fabric remnants; durable, reusable; may be bio-degradable at end of life. Consumer: each one unique; sturdy, can hold a lot; washable; liked by green consumers.	Environmental: few Consumer: not easily mass- produced.	http://www.reusethisbag.com/25-reasons-to-go-reusable.asp http://www.morsbags.com/
Starch-based bags (corn)	Environmental: bio-degrade easily, renewable resource. Consumer: acceptable alternative for food wrapping; biodegradable, may be compostable.	Environmental: misuse of a food crop; limited re-use; biodegrading releases methane; can contaminate plastics recycling. Consumer: biodegrade too easily; more expensive than plastic.	http://www.wrap.org.uk/retail/carrier_bags/carrier_bags.html http://www.discountbiodegradablebags.co.uk/ http://www.e-voice.org.uk/greenerkingston/files/view/Degradable- Biodegradable_bags_factsheet_PS_190607.doc
Starch-based bags (potato)	Environmental: biodegrade easily; made from renewable waste product. Consumer: acceptable alternative for food wrapping; biodegradable, may be compostable.	Environmental: limited re-use; biodegrading releases methane; can contaminate plastics recycling. Consumer: biodegrade too easily, more expensive than plastic.	http://www.discountbiodegradablebags.co.uk/ http://www.e-voice.org.uk/greenerkingston/files/view/Degradable- Biodegradable bags factsheet PS 190607.doc

Polyester /	Environmental:	Environmental: not	http://www.reusethisbag.com/25-reasons-to-go-reusable.asp
Polypropylene	long-life, reusable;	recyclable or bio-	
	can be made from	degradable. May be	
	recycled materials,	oil-based.	
	e g plastic bottles.	Consumer: few	
	Consumer: light		
	and portable, but		
	sturdy, can hold a		
A	lot; durable.	Fracing property sil	http://www.rougothicher.com/05 rougonote.go.rougohlo.com
Nylon	Environmental: long-life, reusable;	Environmental: oil- based product; not	http://www.reusethisbag.com/25-reasons-to-go-reusable.asp
	Consumer: very	recyclable or bio-	
	light and portable,	degradable.	
	but sturdy, can	Consumer: few	
	hold a lot; durable;	Consumer. 16w	
	cheap.		
	опочр.	Relow this line as	re the least sustainable and least acceptable materials
Paper	Environmental:	Environmental:	http://www.enviroliteracy.org/article.php/1268.html
. upo:	Can be made from	rarely if ever	http://legacy.london.gov.uk/assembly/reports/environment/bag-to-basics.pdf
	recycled paper;	reused; heavy	http://www.wrap.org.uk/retail/carrier_bags/carrier_bags.html
	recyclable if	environmental costs	
	uncoated.	of paper production	
	Consumer: few;	and recycling;	
	cheap; takes logos	heavy and bulky in	
	etc well.	waste and	
		transport.	
		Consumer: not	
		waterproof; limited	
		capacity.	
Degradable PE	Environmental:	Environmental:	http://www.wrap.org.uk/retail/carrier_bags/carrier_bags.html
	can bio-degrade in	may be oil-based;	http://www.wrap.org.uk/downloads/Biopolymer briefing 26 jan 09 final1.de875513.4907.pdf
	18 months to four	needs light and	http://www.discountbiodegradablebags.co.uk/
	years in the right	heat to biodegrade;	http://www.e-voice.org.uk/greenerkingston/files/view/Degradable-
	conditions (i e not	limited reuse; may	Biodegradable bags factsheet PS 190607.doc
	landfill), does not release methane.	contaminate other	http://www.european-bioplastics.org/media/files/docs/en-pub/050606 Position Degradable PE.pdf
	Consumer: like	recycling. Consumer: few	
	other plastics,	Consumer. lew	
	waterproof; light.		
	I		

Long-life / heav yw eight plastic	Environmental: reusable for; Consumer: waterproof; cheap; takes logos etc well.	Environmental: oil-based product; not as durable as many other materials; heavier and bulkier in waste and transport, and takes even longer than light-weight single-use plastic to break down; recycling limited; environmental costs of recyding – induding transport abroad. Consumer:	http://www.mcsuk.org/what we do/Clean+seas+and+beaches/Litter+campaigns/Plastics http://legacy.london.gov.uk/assembly/reports/environment/bag-to-basics.pdf
Single-use plastic	Environmental: occasionally recycled Consumer: free; light; waterproof; takes logos etc well	deteriorate quite quickly, limited reuse. Environmental: very limited reuse; wide-spread litter (with associated costs); oil-based product; takes 100s of years to break down; limited recycling; environmental costs of recycling – including transport abroad. Consumer: limited capacity.	http://legacy.london.gov.uk/assembly/reports/environment/bag-to-basics.pdf http://www.enviroliteracy.org/artide.php/1268.html http://www.mcsuk.org/what_we_do/Clean+seas+and+beaches/Litter+campaigns/Go+plastic+bag+free http://www.mcsuk.org/what_we_do/Clean+seas+and+beaches/Litter+campaigns/Plastics http://www.messageinthewaves.com/



* **Notes:** All types of carrier bag, whether made from plastic, paper or jute, will have some impact on the environment during the manufacturing process, transportation and ultimate disposal. So the best way to reduce their carbon footprint is to simply re-use them as many times as possible and then recycle them at the end of their useful life.

There is little or no evidence that shoppers or visitors to events need more bags, and by far the most sustainable (and cheapest) option is to encourage them to carry and use the ones they already own.