Multi-material distributed recycling via Fused granular fabrication: rHDPE and rPET case of study

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Acronyms

Acronym	Definition
ABS	Poly(acrylonitrile butadiene styrene)
AM	Additive Manufacturing
DRAM	Distributed recycling via additive manufacturing
DSC	Melt flow index
FDM	Fused deposition modeling
FFF	Fused filament fabrication
FGF	Fused granular fabrication
FPF	Fused particle fabrication
FTIR	Differential scanning calorimetry
HDPE	High-density polyethylene
MFI	Virgin or commercial Poly(ethylene terephthalate)
PC	Polycarbonate
PET	Poly(ethylene terephthalate)
PLA	Poly(lactic acid)
PP	Polypropylene
PSO	Particle swarm optimization
PS	Polystyrene
SEBS	Poly (styrene-block-ethene-co-butene-block-styrene)
Tg	Degree of crystallization
pBC	Glass temperature
rHDPE	Recycled High-density Polyethylene
rPET90//rHDPE10	Recycled Bottle-Cap (Cristaline bottle shredded without separation)
rPET	Recycled Poly(ethylene) terephthalate
vPET	Printed Bottle-Cap
NA	Fourier-transform infrared spectroscopy

Introduction