

environment matters

Recycled Plastics Product Catalogue

**Are you
ready to make
the switch?**



We don't simply collect waste - we transform it!



Enva is one of the UK's leading recyclers of waste plastics. Specialising in household appliances, (Waste Electrical and Electronic Equipment Recycling- WEEE), Enva creates the highest quality compounds and recycled polymers for use in the manufacture of new components and products, diverting as much waste plastics as possible from landfill.

The use of recycled polymer provides manufacturers with the ability to realise significant cost savings over the use of virgin material, whilst manufacturing a more environmentally friendly and highly marketable product. Through the recovery and reuse of waste materials, Enva enable the displacement of virgin materials and fossil fuels, avoiding the generation of CO₂.

For manufacturers of commodity and technical products, the realisation of these benefits can be almost immediate. Recycled plastic has no impact on product quality and can be substituted into manufacturing processes without the need for additional process modifications or lengthy testing periods.

Our materials are supported by material safety data sheets technical data sheets, pelletised pellets are REACH and RoHS compliant also.

- Compounds
- Plastic Regrind
- Outturn
- Ferrous and Non Ferrous Metals
- Disposal Grades (Pops / Heavies / Landfill material etc)



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Selling Polymers Direct to Manufacturers

Link to
Technical
Datasheets

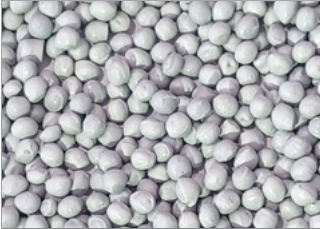


Compound	Material Properties	Used in, but not limited to:
ABS Acrylonitrile Butadiene Styrene	Aesthetically pleasing, strong and durable.	ABS packaging; Furniture fixtures and fittings, cable reels, pencil sharpeners, plastic drawers, under bonnet applications, automotive parts, cupholders, gear sticks, plastic container, kitchen unit feet, licence plate backing and keyboards.
PS Polystyrene	General injection moulding purposes.	PS packaging; Plant pots, coat hangers, mushroom trays, seed trays, planting troughs, footwear, wall plugs, cable caps, cable reels, storage contains, waterproof drums, fastening lips, identification tags and keyrings.
HIPS High Impact Polystyrene	Good Surface finish, tough and flexible with a good flow.	
PP Polypropylene	Chemical resistance, even and consistent appearance, tough and flexible and a good resistance to fatigue.	PP packaging; Construction industry, pipe parts, furniture, under bonnet applications, automotive parts, kitchen unit sockets, coat hangers, plastic drums, buckets, baskets, gravel grids and street furniture.
FPP Filled Polypropylene - Mineral filled PP	Used for impact strength and stiffness - Streamlines thermoforming. Allowing the plastic to heat and cool down faster.	FPP packaging; Construction industry, under bonnet applications, automotive parts, gravel grids and rainwater harvesting systems - FPP (Mineral filled PP).

Suitable for Masterbatch, Injection Moulding processes for a sustainable supply chain.

Enva's consistent input material and high-quality recycling processes ensure our polymers fulfil the demands of the compounding process. As a result, the pigment and additive parts can be merged into the base polymer completely homogeneously.

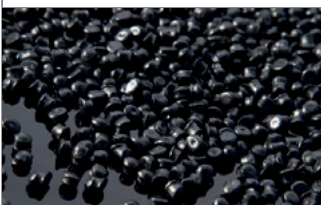
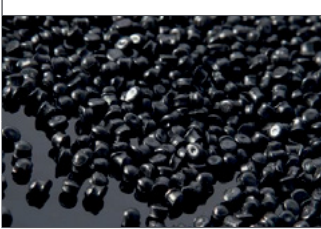
Plastics Product Catalogue - Compounds

Material	Description / Mechanical Property	Measure	Spec (Min)	Spec (Max)	
Plastic HIPS RP002	Recycled Black HIPS. Injection/Extrusion Grade.				
	Density	ISO 1183-1	g/cm³	1.04	1.07
	Melt Flow	ISO 1133 200° 5kg	g/10 mins	5	9
	Izod Notched Impact Strength	ISO 180A	KJ/m²	6	-
	Elongation At Break	ISO 527-2	%	22	-
Plastic Black HIPS 4113	Recycled Black PS. Injection/Extrusion Grade.				
	Density	ISO 1183-1	g/cm³	1.05	1.08
	Melt Flow	ISO 1133 200° 5kg	g/10 mins	5	9
	Izod Notched Impact Strength	ISO 180A	KJ/m²	>6.5	
	Elongation At Break	ISO 527-2	%	>22	
Plastic Black HIPS 4139	Recycled Black PS. Injection/Extrusion Grade.				
	Density	ISO 1183-1	g/cm³	1.05	1.08
	Melt Flow	ISO 1133 200° 5kg	g/10 mins	4.5	8.5
	Moisture	Enva (MS-70 Prog 2)	%	-	0.3
	Izod Notched Impact Strength	ISO 180A	KJ/m²	>8	
	Elongation At Break	ISO 527-2	%	>28	
	Bromine Level	XRF-ppm	ppm	-	1000
Plastic Grey HIPS RP003	Recycled Grey HIPS. Injection/Extrusion Grade.				D65 L* 64.5
	Density	ISO 1183-1	g/cm³	1.04	1.07
	Melt Flow	ISO 1133 200° 5kg	g/10 mins	5	9
	Izod Notched Impact Strength	ISO 180A	KJ/m²	≥6	-
	Elongation At Break	ISO 527-2	%	25	-
Plastic White HIPS 8507	Recycled White HIPS. Injection/Extrusion Grade.				D65 L* 86.5
	Density	ISO 1183-1	g/cm³	1.05	1.09
	Melt Flow	ISO 1133 200° 5kg	g/10 mins	5.3	8.0
	Moisture		<0.3%	-	0.3
	Izod Notched Impact Strength	ISO 180A	KJ/m²	>5	
	Elongation At Break	ISO 527-2	%	>31	
Plastic White HIPS 8513	Recycled White HIPS. Injection Grade.				D65 L* 90.0
	Density	ISO 1183-1	g/cm³	1.05	1.08
	Melt Flow	ISO 1133 200° 5kg	g/10 mins	4.0	8.0
	Moisture	Enva (MS-70 Prog 2)	<0.3%	-	0.3
	Izod Notched Impact Strength	ISO 180A	KJ/m²	>9	
	Elongation At Break	ISO 527-2	%	>40	
	Bromine Level	XRF-ppm	ppm	-	1000

In addition to the listed grades, we also specialise in collaborating with clients to create custom grades for specific applications. This is particularly beneficial for businesses aiming to transition from prime to recycled materials, ensuring the long-term sustainability of their products.

For further information please contact us on **+44 1775 670 226** or email marketing@enva.com

Plastics Product Catalogue - Compounds

Material	Description / Mechanical Property	Measure	Spec (Min)	Spec (Max)
Plastic PP RP004	Recycled Black PP. Injection/Extrusion Grade.			
	Density	g/cm³	0.92	0.96
	Melt Flow ISO 1133 230° 2.16kg	g/10 mins	7	11
	Izod Notched Impact Strength ISO 180A	KJ/m²	>9	-
	Elongation At Break ISO 527-2	%	40	-
Plastic PP 3106	Recycled Black PP. High Melt Injection/Extrusion Grade.			
	Density ISO 1183-1	g/cm³	0.92	0.96
	Melt Flow ISO 1133 230° 2.16kg	g/10 mins	31	39
	Izod Notched Impact Strength ISO180A	KJ/m²	≥8	-
	Elongation At Break ISO 527-2	%	14.5	-
Plastic PP 7500	Recycled White PP. High Melt Injection/Extrusion Grade.			
	Density ISO 1183-1	g/cm³	0.94	0.98
	Melt Flow ISO 1133 230° 2.16kg	g/10 mins	9.5	15
	Izod Notched Impact Strength ISO180A	KJ/m²	≥5	-
	Elongation At Break ISO 527-2	%	7	-
Plastic FPP RP001	Recycled Black PP. Calcium carbonate 23% filled. Injection/Extrusion grade.			
	Density ISO 1183-1	g/cm³	1.10	1.14
	Melt Flow ISO 1133 230° 2.16kg	g/10 mins	7	12
	Izod Notched Impact Strength ISO180A	KJ/m²	≥6	-
	Elongation At Break ISO 527-2	%	≥20	-
Plastic ABS RP001	Recycled Black ABS. 10+ Impact. Injection Grade.			
	Density ISO 1183-1	g/cm³	1.05	1.08
	Melt Flow ISO 1133 220° 10kg	g/10 mins	25	35
	Izod Notched Impact Strength ISO180A	KJ/m²	10	14
	Elongation At Break ISO 527-2	%	8	-
Plastic ABS RP002	Recycled Black ABS. 14+ Impact. Injection Grade.			
	Density ISO 1183-1	g/cm³	1.05	1.08
	Melt Flow ISO 1133 220° 10kg	g/10 mins	25	35
	Izod Notched Impact Strength ISO180A	KJ/m²	14	-
	Elongation At Break ISO 527-2	%	8	-
Plastic ABS RP003	Recycled Black ABS. 8+ Impact. Injection Grade.			
	Density ISO 1183-1	g/cm³	1.04	1.07
	Melt Flow ISO 1133 220° 10kg	g/10 mins	30	40
	Izod Notched Impact Strength ISO180A	KJ/m²	8	-
	Elongation At Break ISO 527-2	%	8	-

Plastics Product Catalogue - Plastic Regrind

Material	Description / Mechanical Property	Specification
Plastic Regrind PS Mixed White WEEE Derived Plastics	100% Post-consumer derived, REACH & RoHS compliant MAINLY white Polystyrene granulate.	
	Bulk Density	525 Kg/m3
	Moisture (typical)	~0.6%
	Typical Compounded Melt Flow (MFR)	(ISO 1133 5Kg @ 200°C) - 7g/10mins
	Purity (average)	92%

Plastic Regrind PS White WEEE Derived Plastics	100% Post-consumer derived, REACH & RoHS compliant white Polystyrene granulate.	
	Bulk Density	525 Kg/m3
	Moisture (typical)	~0.6%
	Typical Compounded Melt Flow (MFR)	(ISO 1133 5Kg @ 200°C) - 7g/10mins
	Purity	>92%

Plastic Regrind PS WEEE Derived Plastics	100% Post-consumer derived, REACH & RoHS compliant Polystyrene granulate.	
	Bulk Density	525 Kg/m3
	Moisture (typical)	~0.6%
	Typical Compounded Melt Flow (MFR)	(ISO 1133 5Kg @ 200°C) - 7g/10mins
	Purity	>96.5% PS

Plastic Regrind ABS WEEE Derived Plastics	ABS WEEE Derived Plastics Regrind. 100% Post-consumer derived, REACH & RoHS compliant ABS granulate.	
	Bulk Density	525 Kg/m3
	Moisture (typical)	~0.6%
	Typical Compounded Melt Flow (MFR)	(ISO 1133 10Kg @ 220°C) - 30g/10mins
	Purity	>98% ABS

Plastic Regrind ABS Mix WEEE Derived Plastics	ABS Mix WEEE Derived Plastics Regrind. 100% post-consumer derived, REACH & RoHS compliant ABS granulate.	
	Bulk Density	525 Kg/m3
	Moisture (typical)	~0.6%
	Typical Compounded Melt Flow (MFR)	(ISO 1133 10Kg @ 220°C) - 30g/10mins
	Purity	70-90% ABS / 10-30% PS

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Plastics Product Catalogue - Plastic Regrind

Material	Description / Mechanical Property	Specification
Plastic Regrind FPP WEEE Derived Plastics	100% post-consumer derived, REACH & RoHS compliant FPP granulate.	
	Bulk Density	525 Kg/m3
	Moisture (typical)	~0.6%
	Typical Compounded Melt Flow (MFR)	(ISO 1133 2.16Kg @ 230°C) - 9g/10mins
	Purity	>92%
Plastic Regrind PP WEEE Derived Plastics	100% Post-consumer derived, REACH & RoHS compliant PP granulate	
	Density	430 Kg/m3
	Moisture	>90% PP
	Typical Compounded Melt Flow (MFR)	(ISO 1133 2.16Kg @ 230°C) - 8g/10mins
	Purity	>90% PP

Plastics Product Catalogue - Outturn

Material	Description
Purge	 Pallets of purge waste blocks including ABS, PS and PP from compounding lines. Ongoing supply available 1x FTL per month.
	
PP Baled Bulk bags	 End of life baled bulk PP sacks. More images available on request.
	
HDPE Baled Bags	 End of life PE baled Film bag shrouds. More images available on request.
	

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Plastics Product Catalogue - **Outturn**

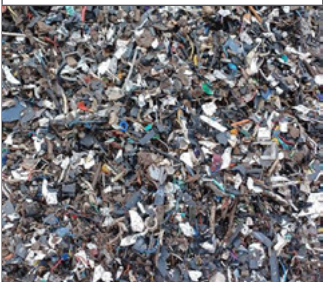
Material	Description
EKS Fines 	Finer grains of plastic from our electrostatic polymer sorter. Measuring between dust and 2mm.
C/S Fines 	Finer grains of plastic from our colour sorter polymer sorter. Measuring between dust and 2mm.

Plastics Product Catalogue - **Ferrous and Non Ferrous Metals**

Material	Description
PCB Waste 	Amber Status, Hazardous material. Contains circuit boards, plastic, aluminium, copper wires may contain some stainless steel.
Alifrag Waste 	Amber Status, Hazardous material. Contains aluminium, circuit boards, and some copper wire and tubing. May also contain sealant contamination.
Large Non-Ferrous 	Amber Status, Hazardous waste. Contains copper, bronze, cables with insulations, plugs, rubber, glass, rocks, some plastic, could contain batteries.

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Plastics Product Catalogue - Disposal Grades

Material	Description
POPs 	Production process incineration fraction. More images available on request.
Heavies 	Hazardous material comprises of non-target plastics including but not limited to rubber, PC, PC-ABS, PA, PS-FR, fPP.
Clean Waste 	Low grade plastics and contamination such as but not limited to wood.
Zac Waste 	Hazardous low grade plastics, film, foam, wood and dust.
Landfill 	Small plastic, zigzag fines (dust, film, wood, foam), wet fines from dryer and dust.

**Samples
can be sent
on request**

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Recycled Polymers - Cost Effective & Sustainable



The use of recycled polymer provides manufacturers with the ability to realise significant cost savings over the use of virgin material, whilst manufacturing a more environmentally friendly and highly marketable product. Through the recovery and reuse of waste materials, Enva enable the displacement of virgin materials and fossil fuels, avoiding the generation of CO₂.

For manufacturers of commodity and technical products, the realisation of these benefits can be almost immediate. Recycled plastic has no impact on product quality and can be substituted into manufacturing processes without the need for additional process modifications or lengthy testing periods.

Enva is one of the UK's leading recyclers of waste plastics. Specialising in household appliances, (Waste Electrical and Electronic Equipment Recycling - WEEE), Enva creates the highest quality compounds and recycled polymers for use in the manufacture of new components and products, diverting as much waste plastics as possible from landfill.

Our investment in our plastic recycling facilities has been extensive, doubling our capacity and creating one of the UK's largest and most advanced plastic recycling facilities. As well as our specialist recycling facilities in Bourne where we manufacture our high quality plastic compounds, we also collect and recycle lower grade household and commercial plastic wastes at facilities in the East Midlands and Glasgow in Scotland.

Our recovery process means that we are saving 1000's of tonnes of plastic a year that was previously unrecyclable, removing dangerous POPs chemicals from the environment and supply chain.



Inbound

Separation

Granulation

Blending

Products



Link to
Technical
Datasheets



Plastic WEEE Recycle

Enva has, for many years, pioneered advanced plastic recycling techniques creating products that have comparable quality properties of virgin plastic compounds.

Enva's best-in-class dedicated plastic and mixed WEEE recycling facility in Bourne, Lincolnshire is one of the largest dedicated mixed WEEE facilities in the UK. Split across two sites, that firstly take in, sort and process waste plastics including WEEE. Then secondly, convert this waste plastic into high quality compounds for use in the manufacture of new plastic products and components as a comparable, yet cost effective, alternative to virgin plastic.

We can also take many grades of non-hazardous waste plastics including:

- Coat hangers
- Displays boards
- Garden furniture
- Toys
- Buckets & Storage containers
- Packaging plastics
- Industrial & Commercial waste
- Manufacturing scrap
- Segregated post consumer plastics

Plastic Compounds

Enva is an industry supplier of a range of high-quality recycled compounds, that are comparable to virgin plastic suitable for the manufacture of both consumer and industrial focused products across a wide range of market sectors and applications ranging from electronic devices through to the construction, general household and automotive component industries.

We recycle as much plastic as possible into compounds which supports a circular economy. Enva extrude three clean polymers ABS, PS, HIPS & PP from which customised formulated compounds are made.

- Acrylonitrile Butadiene Styrene (ABS)
- Polypropylene (PP)
- Polystyrene (PS) / High Impact Polystyrene (HIPS)

The use of recycled polymer has a number of environmental benefits, including, reduced pressure on natural resources and the associated energy consumption from raw material extraction and the development of a more sustainable supply chain.

Our materials are supported by material safety data sheets technical data sheets, pelletised pellets are REACH and RoHS compliant also.

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39 facilities



2000 employees



£392m turnover

For further information please contact
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