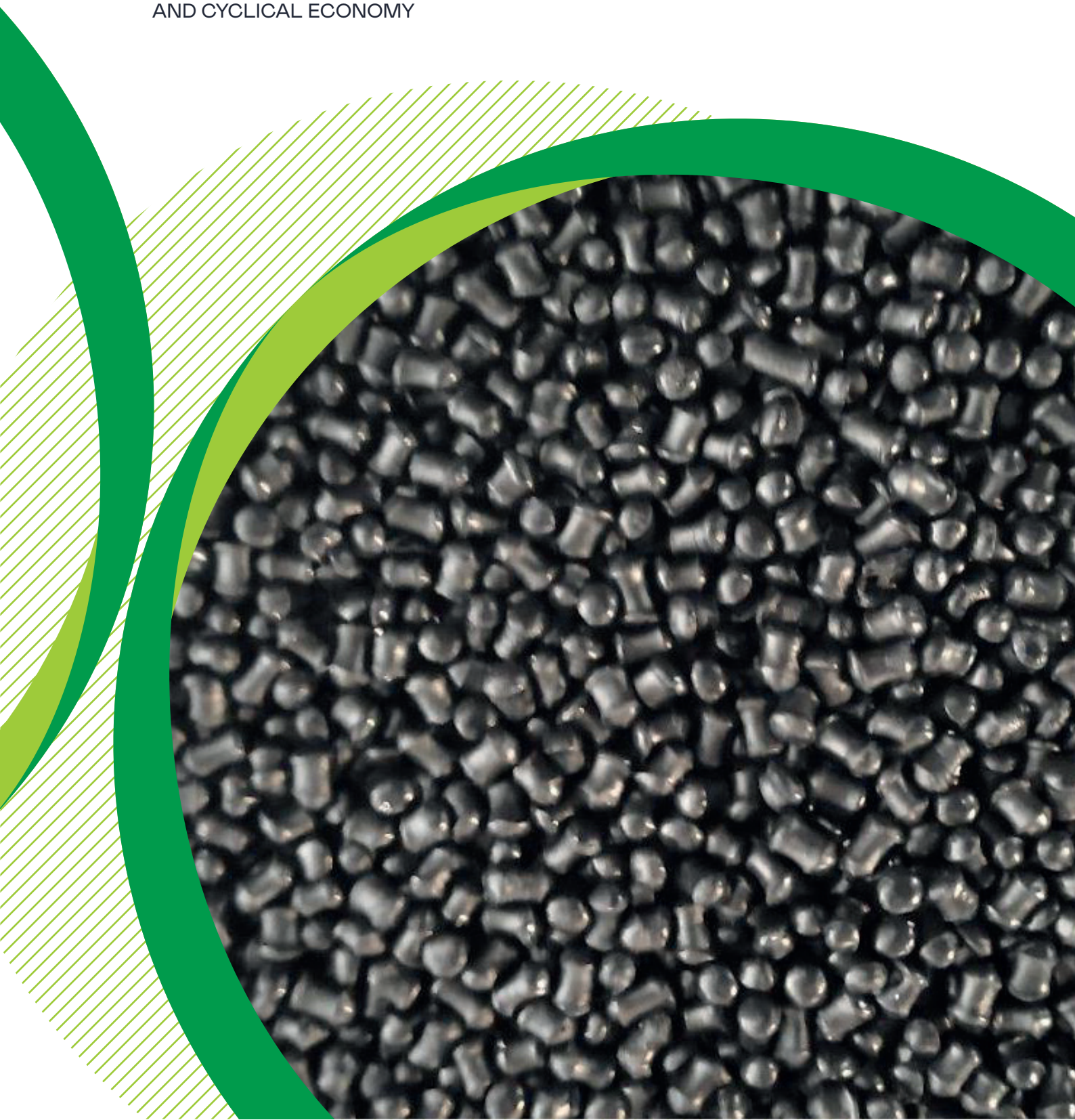


RECYCLED PLASTIC GRANULES

ABS, PS, PP

THE PRODUCT MEETS THE PRINCIPLES OF RESOURCE CONSERVATION
AND CYCLICAL ECONOMY





ЭКОПЛАСТ

THE EKOPLAST PLANT IS A HIGH-TECH FACTORY FOR THE PROCESSING OF MIXED PLASTICS FROM WEEE. THE FACTORY PRODUCES HIGH QUALITY RECYCLED ABS, PS, PP PLASTIC GRANULES.

The Ekoplast plant is a part of the only one complex of factories for completely ecological recycling WEEE in Russia, managed by Ecopolis Corporation.

The plant's capacities allow to process up to 25,000 tons of mixed plastics from WEEE per year.

EKOPLAST PLANT TECHNOLOGIES


- Technologies, unique for Russia, for the separation on an industrial scale of plastics from WEEE with the separation of highly filled plastics.
- A closed water supply system and modern gas cleaning equipment, excluding the ingress of discharges into the city sewerage system and harmful emissions into the atmosphere.

GRANULE PRODUCED BY ECOPLAST PLANT

- Can be used to manufacture products by injection molding.
- Can be used both as a 100% replacement for primary raw materials, and as a "admixture" to primary raw materials. In both cases, the cost of the finished product is reduced.
- The physical and mechanical properties of the granules are at the same stable level within the same batch. But there is a possibility of product modification at the request of the buyer.



RECYCLED ABS

MATERIAL	100% Post-Consumer Recycled Acrylonitrile Butadiene Styrene	
COLOR	RAL 9005	
ATTRIBUTES	Even and consistent appearance Toughness Strong and durable Good ease of process	
PACKAGING	1 tonne bulk bags	

PROPERTY	VALUE		TEST METHOD
	MIN	MAX	
Melt Flow (10 kg @220°C), g/10mins	28,0	33,0	ISO 1133
Elongation at Break, %	10,5	12,6	ISO 527
Tensile strength (@23°C), MPa	36,7	39,1	ISO 527
Flexural Modulus (@23°C), MPa	1900	1950	ISO 527
Density, g/cm ³	1,05	1,05	ISO 1183

The manufacturer guarantees the stable quality of the granule within the batch.



RECYCLED ABS


MATERIAL	100% Post-Consumer Recycled Acrylonitrile Butadiene Styrene	
COLOR	RAL 7035	
ATTRIBUTES	Even and consistent appearance Toughness Strong and durable Good ease of process	
PACKAGING	1 tonne bulk bags	

PROPERTY	VALUE		TEST METHOD
	MIN	MAX	
Melt Flow (10 kg @220°C), g/10mins	28,0	35,0	ISO 1133
Elongation at Break, %	14,5	15,5	ISO 527
Tensile strength (@23°C), MPa	37,5	39,1	ISO 527
Flexural Modulus (@23°C), MPa	1900	1950	ISO 527
Density, g/cm ³	1,05	1,05	ISO 1183

The manufacturer guarantees the stable quality of the granule within the batch.



RECYCLED PS


MATERIAL	100% Post-Consumer Recycled Polystyrene	
COLOR	RAL 9004	
ATTRIBUTES	Good electrical insulation properties Frost resistance Good ease of process High moisture-resistance	
PACKAGING	1 tonne bulk bags	

PROPERTY	VALUE		TEST METHOD
	MIN	MAX	
Melt Flow (10 kg @220°C), g/10mins	6,0	6,5	ISO 1133
Elongation at Break, %	23,0	25,0	ISO 527
Tensile strength (@23°C), MPa	23,3	24,1	ISO 527
Flexural Modulus (@23°C), MPa	1670	1700	ISO 527
Density, g/cm ³	1,03	1,05	ISO 1183

The manufacturer guarantees the stable quality of the granule within the batch.



RECYCLED PS

MATERIAL	100% Post-Consumer Recycled Polystyrene	
COLOR	RAL 7035	
ATTRIBUTES	Good electrical insulation properties Frost resistance Good ease of process High moisture-resistance	
PACKAGING	1 tonne bulk bags	

PROPERTY	VALUE		TEST METHOD
	MIN	MAX	
Melt Flow (10 kg @220°C), g/10mins	5,0	6,3	ISO 1133
Elongation at Break, %	22,5	24,5	ISO 527
Tensile strength (@23°C), MPa	25,1	25,6	ISO 527
Flexural Modulus (@23°C), MPa	1720	1800	ISO 527
Density, g/cm ³	1,03	1,05	ISO 1183

The manufacturer guarantees the stable quality of the granule within the batch.



RECYCLED PP

MATERIAL	100% Post-Consumer Recycled Polystyrene	
COLOR	RAL 9004	
ATTRIBUTES	Chemical resistance High moisture-resistance Good electrical insulation properties	
PACKAGING	1 tonne bulk bags	

PROPERTY	VALUE		TEST METHOD
	MIN	MAX	
Melt Flow (10 kg @220°C), g/10mins	8,0	8,5	ISO 1133
Elongation at Break, %	14,5	15,5	ISO 527
Tensile strength (@23°C), MPa	19,0	20,0	ISO 527
Flexural Modulus (@23°C), MPa	5,0	5,0	ISO 527
Density, g/cm ³	0,9	0,9	ISO 1183

The manufacturer guarantees the stable quality of the granule within the batch.



HIGH CV FUEL ADDITIVE PRODUCED BY ECOPLAST PLANT

NET CV 37+/-3 MJ/kg

DESCRIPTION:

High CV fuel additive produced by Ecoplast Plant – fully recycled, technically refined high CV fuel, which has a similar energy content to powdered petcoke fuel. Composition of high CV fuel additive produced by Ecoplast Plant ideal for storage and transport in large volumes, as well as for feeding into the combustion system. The material contains a mixture of heavy polymers that are part of the WEEE. Trace levels of metals, wood, textiles and other impurities may occur.

PRODUCTION:

High CV fuel additive produced as part of the complex recycling of plastics from WEEE. The Ekoplast plant uses a unique system of separation and cleaning of plastics. This makes it possible to obtain a fuel additive of controlled quality with a consistently high specific heat of combustion.

BENEFITS:

- Alternative fuel that meets the principles of resource conservation and cyclical economy.
- Possibility of full or partial substitution of fuel with high CO₂ content.
- Convenience of transportation and use.
- Stable supply.

COMPOSITION:



FUEL ADDITIVE PRODUCED BY ECOPLAST PLANT

NET CV 15-20 MJ/kg

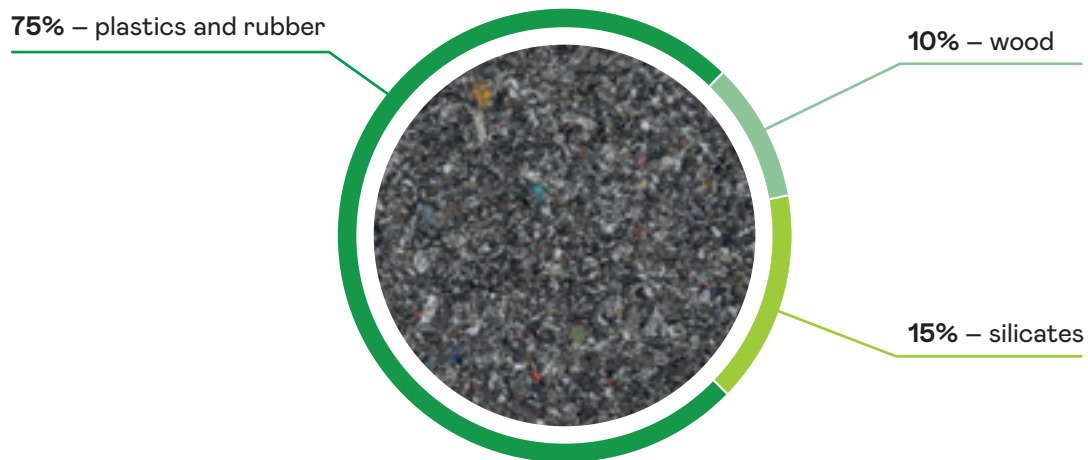
DESCRIPTION:

Fuel additive is a mixture of plastics, rubber, textiles, fibers and other by-products from recycling waste electronic and electrical equipment. The size of the fuel particles does not exceed 3 mm. The fuel additive from Ekoplast has a high specific heat of combustion for similar types of alternative fuels.

PRODUCTION:

Fuel additive produced as part of the complex recycling of plastics from WEEE. This allows to guarantee consumers the stability of the quality and supply of the material.

COMPOSITION:







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