

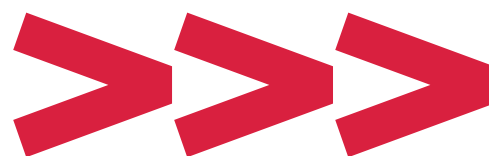
PET Recycled Resins & Flakes Catalogue



➤ Technical Data Sheets
PET

PET Recycled Matrix

		Category	Sub-Category	Form	IV Range (dL/g)	Color	PVC	Application
1. EFSA/FDA certified	1.1	Food-Grade rPET	Decontaminated Food grade Flakes	Flake	0.65–0.80	Clear	<50 ppm	Bottle-to-Bottle, Sheet
	1.2	Food-Grade rPET	Food-Grade Pellets	Granule	0.76–0.85	Clear		Bottle-to-Bottle, Sheet
2. Recyclclass A1 certified	2.1	Input to food-grade recycling	Hot Caustic Washed Flakes	Flake	0.65–0.80	Clear & Light Blue	<30 ppm	Bottle-to-Bottle input, Sheet
3. Recyclclass general / GRS certified	3.1	Bottle Flake rPET	Hot Caustic Washed Flakes	Flake	0.72–0.80	Clear	<30 ppm	Bottle-to-Bottle input, Sheet
	3.2	Bottle Flake rPET	Hot Caustic Washed Flakes	Flake	0.64–0.80	Clear & Light Blue	<30 ppm	Bottle-to-Bottle input, Sheet
	3.3	Bottle Flake rPET	Hot Caustic Washed Flakes	Flake	0.72–0.80	Clear	<50 ppm	Bottle-to-Bottle input, Sheet
	3.4	Bottle Flake rPET	Hot Caustic Washed Flakes	Flake	0.68–0.80	Clear & Light Blue	<50 ppm	Bottle-to-Bottle input, Sheet
4. High Quality uncertified	4.1	Bottle Flake rPET	Hot Caustic Washed Flakes	Flake	0.72–0.80	Clear	<30 ppm	Bottle-to-Bottle, Sheet
5. Varied Quality uncertified (e.g. Cold Washed or higher PVC content)	5.1	Bottle Flake rPET	Tailor-Made Solutions	Flake / Granule	On Request	On Request	>50 ppm	Polyester Fiber, Nonwovens, Film, Packaging, Compounds



1.1 PET Recycled Natural Flakes

Decontaminated Food grade Flakes

Name of the material	PET-Natural Flakes
Source material	Post Consumer Bottles
Flake size	3-13 mm
Volume available	200 MT per month
Packing	Big bags
Origin	Asia
Suggested Application	Bottle to Bottle, Sheet Applications
Certifications	FDA, GRS

Properties	Values	U.M	Test Method
IV - Intrinsic Viscosity	0.65 – 0.8	dl/g	ASTM D 4603
Bulk density	250-350	Kg/m ³	ISO 12418
pH	7 - 8		ISO 12418
Moisture content	<1	%	Gravimetric Analysis
Discoloured Flakes	<4000	ppm	ISO 12418
PVC	<50	ppm	ISO 12418
Total contamination	<100	ppm	ISO 12418

Processing parameters	Values	U.M
Processing temperature	220 - 285	°C

Additional notes:

Additional notes:

Reported test result values are average data that have been obtained after several tests in production. Specific value of the lots can be only issued through certificates of Analysis under request.

Material quality as per samples provided.

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1.2 PET Recycled Natural Granules Food Grade rPET

Name of the material	PET-Natural Granules
Source material	Post Consumer PET flakes from bottles
Granule size	3-5 mm
Volume available	250 MT per month
Packing	Big bags
Mesh size during production	N°150
Origin	Australia, Middle East
Suggested Application	Bottle to Bottle, Sheet Applications
Certifications	EFSA / FDA

Properties	Values	U.M	Test Method
IV Intrinsic viscosity	0.76– 0.85	dl/g	ASTM D 4603
Moisture content	3000	ppm	Gravimetric analysis
Bulk density	880	pcs/l	Inhouse test
Acetaldehyde	<1	ppm	GC-MS
Granule count	50-75	Granule/gr	Inhouse test

Processing parameters	Values	U.M
Processing temperature	220 - 285	°C

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2.1 PET Recycled Natural & Light Blue Flakes

Hot Caustic Washed Bottle Flakes

Name of the material	PET-Natural & Light Blue Flakes
Source material	Post Consumer Bottles
Flake size	3-13 mm
Volume available	200 MT per month
Packing	Big bags
Origin	Europe, Middle East
Suggested Application	Bottle to Bottle input, Sheet Applications
Certifications	RecyClass A1

Properties	Values	U.M	Test Method
IV - Intrinsic Viscosity	0.65 – 0.8	dl/g	ASTM D 4603
Bulk density	250-350	Kg/m ³	ISO 12418
pH	7 - 8		ISO 12418
Moisture content	<1	%	Gravimetric Analysis
Discoloured Flakes	<10000	ppm	ISO 12418
PVC	<30	ppm	ISO 12418
Total contamination	<100	ppm	ISO 12418

Processing parameters	Values	U.M
Processing temperature	220 - 285	°C

Additional notes:

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3.1 PET Recycled Natural Flakes

Hot Caustic Washed Bottle Flakes

Name of the material	PET-Natural Flakes
Source material	Post Consumer Bottles
Flake size	3-13 mm
Volume available	200 MT per month
Packing	Big bags
Origin	Asia
Suggested Application	Bottle to Bottle input, Sheet Applications
Certifications	RecyClass general / GRS certified

Properties	Values	U.M	Test Method
IV - Intrinsic Viscosity	0.72 – 0.8	dl/g	ASTM D 4603
Bulk density	250-350	Kg/m ³	ISO 12418
pH	7 - 8		ISO 12418
Moisture content	<1	%	Gravimetric Analysis
Discoloured Flakes	<5000	ppm	ISO 12418
PVC	<30	ppm	ISO 12418
Total contamination	<100	ppm	ISO 12418

Processing parameters	Values	U.M
Processing temperature	220 - 285	°C

Additional notes:

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3.2 PET Recycled Natural & Light Blue Flakes

Hot Caustic Washed Bottle Flakes

Name of the material	PET-Natural & Light Blue Flakes
Source material	Post Consumer Bottles
Flake size	3-13 mm
Volume available	200 MT per month
Packing	Big bags
Origin	Asia, Australia, Middle East
Suggested Application	Bottle to Bottle input, Sheet Applications
Certifications	RecyClass general / GRS certified



Properties	Values	U.M	Test Method
IV - Intrinsic Viscosity	0.64 – 0.8	dl/g	ASTM D 4603
Bulk density	250-350	Kg/m ³	ISO 12418
pH	7 - 8		ISO 12418
Moisture content	<1	%	Gravimetric Analysis
Discoloured Flakes	<5000	ppm	ISO 12418
PVC	<30	ppm	ISO 12418
Total contamination	<100	ppm	ISO 12418

Processing parameters	Values	U.M
Processing temperature	220 - 285	°C

Additional notes:

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3.3 PET Recycled Natural Flakes

Hot Caustic Washed Bottle Flakes

Name of the material	PET-Natural Flakes
Source material	Post Consumer Bottles
Flake size	3-13 mm
Volume available	200 MT per month
Packing	Big bags
Origin	Asia
Suggested Application	Bottle to Bottle input, Sheet Applications
Certifications	GRS certified

Properties	Values	U.M	Test Method
IV - Intrinsic Viscosity	0.72 – 0.8	dl/g	ASTM D 4603
Bulk density	250-350	Kg/m ³	ISO 12418
pH	7 - 8		ISO 12418
Moisture content	<1	%	Gravimetric Analysis
Discoloured Flakes	<7000	ppm	ISO 12418
PVC	<50	ppm	ISO 12418
Total contamination	<200	ppm	ISO 12418

Processing parameters	Values	U.M
Processing temperature	220 - 285	°C

Additional notes:

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3.4 PET Recycled Natural & Light Blue Flakes

Hot Caustic Washed Bottle Flakes

Name of the material	PET-Natural & Light Blue Flakes
Source material	Post Consumer Bottles
Flake size	3-13 mm
Volume available	200 MT per month
Packing	Big bags
Origin	Middle East
Suggested Application	Bottle to Bottle input, Sheet Applications
Certifications	RecyClass general certified



Properties	Values	U.M	Test Method
IV - Intrinsic Viscosity	0.68 – 0.8	dl/g	ASTM D 4603
Bulk density	250-350	Kg/m ³	ISO 12418
pH	7 - 8		ISO 12418
Moisture content	<1	%	Gravimetric Analysis
Discoloured Flakes	<7000	ppm	ISO 12418
PVC	<50	ppm	ISO 12418
Total contamination	<200	ppm	ISO 12418

Processing parameters	Values	U.M
Processing temperature	220 - 285	°C

Additional notes:

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4.1 PET Recycled Natural Flakes

Hot Caustic Washed Bottle Flakes

Name of the material	PET-Natural Flakes
Source material	Post Consumer Bottles
Flake size	3-13 mm
Volume available	200 MT per month
Packing	Big bags
Origin	Asia
Suggested Application	Bottle to Bottle input, Sheet Applications
Certifications	-

Properties	Values	U.M	Test Method
IV - Intrinsic Viscosity	0.72 – 0.8	dl/g	ASTM D 4603
Bulk density	250-350	Kg/m ³	ISO 12418
pH	7 - 8		ISO 12418
Moisture content	<1	%	Gravimetric Analysis
Discoloured Flakes	<5000	ppm	ISO 12418
PVC	<30	ppm	ISO 12418
Total contamination	<100	ppm	ISO 12418

Processing parameters	Values	U.M
Processing temperature	220 - 285	°C

Additional notes:

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5.1 PET Recycled Natural & Light Blue Flakes

Tailor made solutions

Name of the material	PET-Natural & Light Blue Flakes
Source material	Post Consumer Bottles
Flake size	3-13 mm
Volume available	200 MT per month
Packing	Big bags
Origin	Australia, Middle East
Suggested Application	Polyester Fiber, Nonwovens, Film, Packaging, Compounds
Certifications	-

Properties	Values	U.M	Test Method
IV - Intrinsic Viscosity	On request	dl/g	ASTM D 4603
Bulk density	On request	Kg/m ³	ISO 12418
pH	On request		ISO 12418
Moisture content	On request	%	Gravimetric Analysis
Discoloured Flakes	>4000	ppm	ISO 12418
PVC	>50	ppm	ISO 12418
Total contamination	>100	ppm	ISO 12418

Processing parameters	Values	U.M
Processing temperature	220 - 285	°C

Additional notes:

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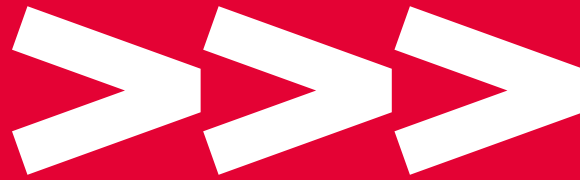
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Delivering certainty in the uncertain world of recycled plastics

Since 2005, Vanden has collected and supplied scrap plastic for recycling, producing over 600kT of recycled feedstock to converters in over 30 countries, across three continents. Our responsible, transparent practices and processes have been developed specifically for the scrap and recycled resins market.

Our global footprint means we can minimise the impact of market disruptions, providing a stable, reliable and diverse supply of recycled content for packaging and other plastic manufacturers.

Why should you partner with Vanden?

Manufacturers and converters are faced with two challenges

– **securing consistently high-quality recycled content and ensuring it is supplied on a regular basis.**



Securing volume with source diversification

Limited volume of plastic scrap feedstock is a problem frequently faced by suppliers. Our strength lies in Vanden's global footprint, our locations in Asia, Australia, Finland, Ireland, Italy, Netherlands, Spain, Turkey and UK provides access to multiple markets. This means we are able to source specific grades of material according to customer needs, across diversified regions.

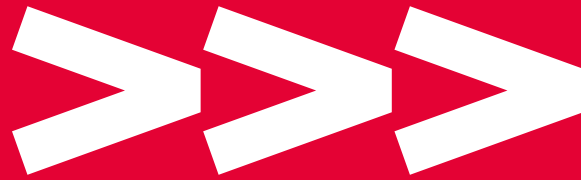
Securing quality with material verification and testing

The team's technical understanding of plastics means that Vanden can control and optimise the quality of the material that we supply. We collect samples according to the Vanden standards to ensure lab tests reflect the real quality you will receive.

Our dedicated Testing Lab carries out a range of quality verification tests, as well as TDS validation and ongoing technical assessments to ensure you always get the right product.

Technical consultancy

Our recycled resin division offers consultancy and technical advisory in recycled resins, flakes and scrap plastics feedstock. By engaging with recyclers, compounders and converters in process improvement, sourcing strategy or investment planning we aid them in producing recycled feedstocks that meet end customers' technical demands.



We don't just supply – We take back too

Our buy-back program turns production scrap and off-spec materials into valuable, reusable input streams. This not only supports your sustainability goals but also helps maximise the value of your waste.

- PET Bottles or Sheets Natural / Colour Lumps
- PET Reject or Off Spec Resins / Regrinds
- PET Fines
- PET Floor Sweeps
- APET Natural / Colour Regrind
- APET Natural / Colour Rolls
- PE-PET Natural / Colour Regrind
- PE-PET Natural / Colour Rolls



PET Sheets Natural Lumps



PET Bottle Colour Lumps



PET Fines



PET Rejected Preform



PET Natural Film Rolls



PET Bottle Colour Regrind



PET Floor Sweeps



PET or PE-PET Trays Colour Regrind



PET or PE-PET Trays
Natural Regrind