

Vanden[®]

Recycled Resins & Flakes Catalogue



Technical Data Sheets:

➤ PET

➤ PP

➤ LDPE

➤ LLDPE

➤ HDPE

CONTENTS



Why Vanden is the supplier to work with **03**

Product Matrix **04**

Technical Data Sheets

PET **05 - 12**

PP **13 - 17**

LDPE - Natural & Honey Colour **18 - 25**

LDPE - Black & Grey **26 - 32**

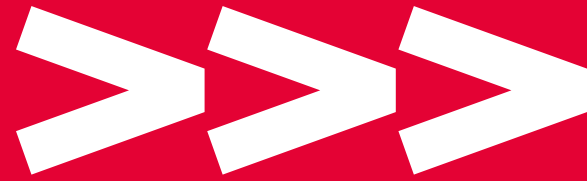
LLDPE **33 - 36**

HDPE **37 - 40**

Contact **41**



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, UK and UAE 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.

MATRIX

POLYMER	SUPPLIER NUMBER	GRADE	COLOUR	ORIGIN REGION	AVAILABLE VOLUME/ MONTH	SOURCE MATERIAL	SUGGESTED APPLICATIONS	IV dl/g	CERTIFICATIONS
PET									
PET	1425	PET 1425 Natural Granule	Natural	MEA	100	Post Consumer Bottles	Sheet, B2B feedstock, textile	0.68 – 0.72	
PET	1426	PET 1426 Natural Granule	Natural	EUROPE	100	Post Consumer Bottles	B2B	0.71 – 0.78	EFSA
PET	569	PET 569 Green	Green	EUROPE	200	Post Consumer Bottles	Sheet, textile, strapping	0.55– 0.65	
PET	1404	PET 1404 Natural & Light Blue Flakes	Natural & Light Blue	MEA	500	Post Consumer Bottles & Post Industrial Bottles	Sheet , B2B feedstock	0.74 – 0.82	
PET	1424	PET 1424 Natural & Light Blue Flakes	Natural & Light Blue	MEA	500	Post Consumer Bottles	Sheet , B2B feedstock	0.65 – 0.75	GRS, Reach compliance declaration
PET	1425	PET 1425 Natural & Light Blue Flakes	Natural & Light Blue	MEA	100	Post Consumer Bottles	Sheet , B2B feedstock	0.65 – 0.76	
PET	3402	PET 3402 Natural & Light Blue Flakes	Natural & Light Blue	MEA	150	Post Consumer Bottles	Sheet , B2B feedstock	0.70 – 0.80	
PET	36	PET 36 Natural	Natural	ASIA	200	Post Consumer Bottles	Sheet , B2B feedstock	0.70 – 0.74	

POLYMER	SUPPLIER NUMBER	GRADE	COLOUR	ORIGIN REGION	AVAILABLE VOLUME/ MONTH	SOURCE MATERIAL	SUGGESTED APPLICATIONS	MFR (190C / 2.16kg) (ISO1133)	MESH SIZE No	CERTIFICATIONS
PP										
PP	1422	PP 1422 PP Grey 515	Grey	MEA	200	Post Consumer Buckets	Injection, compounding	15–20	40	
PP	1406	PP 1406 Grey	Grey	MEA	300	Post Consumer Buckets	Injection, compounding	15–25	60	
PP	1422	PP 1422 Grey 680	Grey	MEA	150	Post Consumer Films	Extrusion -injection	4.0 – 5.0	40	
PP	1428	PP 1428 Black C8001	Black	MEA	200	Post Consumer Buckets	Injection, compounding	≥8	40	Reach compliance declaration
PP	1428	PP-1428-Black-1220 T2	Black	MEA	200	Post Consumer Injection	Injection, compounding	10 – 14	40	
LDPE										
LDPE	11	LDPE 11 Natural	Natural	ASIA	200	Post Consumer Films	Blown film	0.5–0.9	100	GRS
LDPE	34	LDPE 34 Natural	Natural	ASIA	100	Post Consumer Films	Blown film	0.8–1.5	100	GRS
LDPE	1402	LDPE 1402 Natural	Natural	MEA	100	Post Industrial Films	Blown film	0.5–0.9	100	
LDPE	34	LDPE 34 Semi-transparent	Semi-Transparent	ASIA	100	Post Consumer & Post Industrial Films	Blown film	0.8–1.5	100	
LDPE	590	LDPE 590 Semi-Transparent	Semi-Transparent	EUROPE	200	Post Consumer Films	Blown film	0.7–1.3	120	
LDPE	992	LDPE 992 Semi-transparent	Semi-Transparent	EUROPE	300	Post Consumer Films	Blown film	1.0–1.4	140	
LDPE	993	LDPE 993 Semi-transparent	Semi-Transparent	EUROPE	300	Post Consumer Films	Blown film	0.5–0.9	120	
LDPE	1406	LDPE 1406 Honey Color	Honey Color	MEA	100	Post Consumer Films	Blown film	0.5–1.5	100	
LDPE	1401	LDPE 1401 Semi-transparent	Semi-Transparent	MEA	200	Post Consumer Films	Pipe, garbage bags	0.8–1.4	100	
LDPE										
LDPE	558	LDPE 558 Grey	Grey	EUROPE	500	Post Consumer Films	Pipe, garbage bags	1.2	140	
LDPE	1402	LDPE 1402 Grey	Grey	MEA	200	Post Industrial Films	Blown film, pipe, garbage bag	0.5–0.9	100	
LDPE	1427	LDPE 1427 Dark Grey	Grey	EUROPE	200	Post Consumer Films	Pipe, garbage bags	0.45–0.8	130	EUCERPLAS
LDPE	1427	LDPE 1427 Blue	Blue	EUROPE	150	Post Consumer Films	Pipe, garbage bags	0.45–0.8	130	EUCERPLAS
LDPE	1401	LDPE 1401 Black	Black	MEA	100	Post Consumer Films	Pipe, garbage bags	0.4 – 1.2	85	
LDPE	1416	LDPE 1416 Black	Black	MEA	500	Post Consumer Films	Pipe, garbage bags	0.5 – 1.5	100	
LLDPE										
LLDPE	11	LLDPE 11 Natural	Natural	ASIA	200	Post Consumer Films	Blown film, pipe, garbage bag	3.0 – 4.0	100	GRS
LLDPE	1402	LLDPE 1402 Semi-transparent	Semi-Transparent	MEA	50	Post Industrial Films	Blown film, pipe, garbage bag	2.0 – 3.0	100	
LLDPE	33	LLDPE 33 Semi-transparent	Semi-Transparent	ASIA	50	Post Industrial Films	Blown film, pipe, garbage bag	1.3–2.5	120	
LLDPE	1405	LLDPE 1405 semi transparent	Semi-Transparent	MEA	50	Post Consumer Films	Blown film, pipe, garbage bag	2.0 – 3.0	80	
HDPE										
HDPE	1404	HDPE 1404 Natural	Natural	MEA	60	Post Consumer Bottles	Blow molding	0.4–0.6	100	
HDPE	36	HDPE 36 Natural	Natural	ASIA	200	Post Consumer Bottles	Blow molding	0.467	120	
HDPE	988	HDPE 988 Natural	Natural	EUROPE	500	Post Consumer Bottles	Blow molding, thick film	0.3–0.5	100	EUCERPLAS
HDPE	1404	1404 HDPE Green	Green	MEA	100	Post Consumer Bottles	Blow molding, compounding	0.2–0.4	60	

PET Recycled Granules - Natural

Name of the material	PET-1425-Natural
Source material	Post Consumer Bottles
Flake size	<3.55 mm
Volume available	100 MT per month
Packing	Big bags
Origin	MEA
Suggested Application	Sheet, B2B feedstock, textile

Properties	Values	U.M	Test Method
IV - Intrinsic Viscosity	0.68 – 0.72	dl/g	ISO 121628-5
Moisture	< 0.8	%	TS EN 15348 - Annex B

Color Combination	Values	U.M	Test Method
Colour, colour *a *	-3 ± 2		EN ISO 11664-4
Colour, colour *b *	-3 ± 2		EN ISO 11664-4
Colour, colour *L *	65 ± 3		EN ISO 11664-4



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.

Disclaimer

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PET Recycled Granules - Natural

Name of the material	PET-1426-Natural
Source material	Post Consumer Bottles
Flake size	<3.5 mm
Volume available	100 MT per month
Packing	Big bags
Origin	EUROPE
Certification	EFSA
Suggested Application	B2B

Properties	Values	U.M	Test Method
IV - Intrinsic Viscosity	0.71 – 0.78	dl/g	DIN 53735
Acetaldehyd	2.0	ppm	ASTM 2013 - 10

Color Combination	Values	U.M	Test Method
Colour, colour *b *	to -3		Inhouse method*
Colour, colour *L *	>64		Inhouse method*



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PET Recycled Granules – Green

Name of the material	PET 569 Green
Source material	Post Consumer
Granule size	2-4mm
Volume available	200 MT per month
Packing	Big Bags
Origin	EUROPE
Suggested Application	Sheet, textile, strapping

Properties	Values	U.M	Test Method
IV – Intrinsic Viscosity	0.55 – 0.65	dl/g	ISO 12418-2:2012
Bulk density	910	kg/m ³	Internal method
Moisture	<0.2	wt%	Gravimetric method

Physical Contamination	Values	U.M	Test Method
Metals	≤20	ppm	Internal method

After Heat Treatment	Values	U.M	Test Method
PVC	≤1000	ppm	Internal method

Colour	Values	U.M	Test Method
L	25 ... 34	dl/g	Konica Minolta CM -5 Spectrophotometer
a	-11.0 ... -2.0	kg/m ³	Konica Minolta CM -5 Spectrophotometer
b	-1.0 ... +6.0	wt%	Konica Minolta CM -5 Spectrophotometer



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Hot Washed Bottle Flakes – Natural & Light Blue

Name of the material	PET-1404-Natural & Light Blue
Source material	Post Consumer & Post Industrial Bottles
Flake size	2-12.5 mm
Volume available	500 MT per month
Packing	Big bags
Origin	MEA
Suggested Application	Sheet , B2B feedstock

Properties	Values	U.M	Test Method
IV - Intrinsic Viscosity	0.74 – 0.82	dl/g	ASTM D 4603-18
Bulk density	300±100	g/l	ISO 12418-2
Moisture	<1	%	TS EN 15348

Physical Contamination	Values	U.M	Test Method
Metals	≤10	ppm	ISO 12418-2 TS EN 15348
Plastic labels	≤40	ppm	ISO 12418-2 TS EN 15348
Inerts (Wood, stone, glass..)	≤20	ppm	ISO 12418-2 TS EN 15348

After Heat Treatment	Values	U.M	Test Method
PVC	≤30	ppm	ISO 12418-2 TS EN 15348
Adhesives	≤20	ppm	ISO 12418-2 TS EN 15348



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Hot Washed Bottle Flakes – Natural & Light Blue

Name of the material	PET-1424-Natural & Light Blue
Source material	Post Consumer Bottles
Flake size	6-12 mm
Volume available	500 MT per month
Packing	Big bags
Origin	MEA
Certification	GRS, Reach compliance declaration
Suggested Application	Sheet , B2B feedstock

Properties	Values	U.M	Test Method
IV - Intrinsic Viscosity	0.65 – 0.75	dl/g	ISO 12418-2
Bulk density	320±40	g/l	ISO 12418-2
Moisture	≤100	%	ISO 12418-2

Physical Contamination	Values	U.M	Test Method
PVC	≤100	ppm	Flake scan device
Impurity	≤100	ppm	Flake scan device



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Hot Washed Bottle Flakes – Natural & Light Blue

Name of the material	PET-1425-Natural & Light Blue
Source material	Post Consumer Bottles
Flake size	<12.5 mm
Volume available	100 MT per month
Packing	Big bags
Origin	MEA
Suggested Application	Sheet , B2B feedstock

Properties	Values	U.M	Test Method
IV - Intrinsic Viscosity	0.65 – 0.76	dl/g	ISO 121628-5
Moisture	< 1.2	%	TS EN 15348 - Annex B

Physical Contamination	Values	U.M	Test Method
Polyolefin content	≤100	ppm	TS EN 15348 - Annex B
Plastic labels	≤40	ppm	TS EN 15348 - Annex B
Inerts (Wood, stone, glass..)	≤100	ppm	TS EN 15348 - Annex B

After Heat Treatment	Values	U.M	Test Method
PVC	≤200	ppm	TS EN 15348 - Annex B



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Hot Washed Bottle Flakes Natural

Name of the material	PET 3402 Natural
Source material	Post Consumer Bottles
Flake size	8-12mm
Volume available	150 MT per month
Packing	Big bags
Origin	MEA
Suggested Application	Sheet , B2B feedstock

Properties	Values	U.M	Test Method
IV - Intrinsic Viscosity	0.70 - 0.80	dl/g	ISO 121628-5
Bulk Density	320+40	70	ISO 12418-2
Moisture	0.3 - 0.9	%	ISO 12418-2

Physical Contamination	Values	U.M	Test Method
PVC	≤50	ppm	ISO 12418-2
Impurity	≤100	ppm	ISO 12418-2



Additional notes:

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Hot Washed Bottle Flakes – Natural

Name of the material	PET 36 Natural
Source material	Post Consumer Bottles
Flake size	12 -16mm
Volume available	300 MT per month
Packing	Big bags
Origin	ASIA
Suggested Application	Sheet , B2B feedstock

Properties	Values	U.M	Test Method
IV - Intrinsic Viscosity	0.70 - 0.74	dl/g	ISO 12418-2
Moisture	≤ 1	%	EN 15348

Physical Contamination	Values	U.M	Test Method
PVC	≤50	ppm	ASTM D3139
Impurity	≤100	ppm	ASTM D1238



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Recycled Granules – Grey

Name of the material	PP-1422-Grey-515
Source material	Post Consumer Buckets
Granule size	2 -5mm
Volume available	200 MT per month
Packing	25kg bags / Big bags
Mesh size during production	N° 40
Origin	MEA
Suggested Application	Injection, compounding

Properties	Values	U.M	Test Method
Melt Flow Index	15 - 20	g/10min	ISO 1133 (230°C/2.16kg)
Density	<1	g/cm ³	ISO 1183
Tensile Strength	22 - 24	MPa	ISO 527
Elongation at Break	100 - 110	%	ISO 527
Flexural Strength	24 - 27	MPa	ISO 178
Flexural Modulus	1000 - 1120	MPa	ISO 178
Izod Impact Strength - unnotched	125	KJ/m ²	ISO 180-1A
Izod Impact Strength - notched	8 - 9	KJ/m ²	ISO 180-1A

Processing Parameters	Values	U.M
Processing temperature	210 - 250	°C



Additional notes:

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Recycled Granules - Grey

Name of the material	PP 1406 Grey
Source material	Post Consumer Buckets
Granule size	2-5mm
Volume available	300 MT per month
Packing	25kg bags / Big bags
Mesh size during production	N° 60
Origin	MEA
Suggested Application	Injection, compounding

Properties	Values	U.M	Test Method
Melt Flow Rate	15-25	g/10min	ISO 1133 (230°C/2.16kg)
Density	<1	g/cm ³	ISO 1133
Tensile Strength	24 - 26	MPa	ISO 527
Elongation at break	70-110	%	ISO 527
Flexural Strength	1000-1140	MPa	ISO 178
Flexural Modulus	25-27	MPa	ISO 178
Izod Impact Strenght unnotched	60-90	Kj/m ²	ISO 180-1A
Izod Impact Strenght notched	6-8	Kj/m ²	ISO 180-1A

Processing Parameters	Values	U.M
Processing temperature	210 - 250	°C



Additional notes:

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Recycled Granules - Grey

Name of the material	PP 1422 Grey 680
Source material	Post Consumer Films
Granule size	2-5mm
Volume available	150 MT per month
Packing	25kg bags/Big bags
Mesh size during production	Nº 40
Origin	MEA
Suggested Application	Extrusion -injection

Properties	Values	U.M	Test Method
Melt Flow Rate	4.0 - 5.0	g/10min	ISO 1133 (230°C/2.16kg)
Density	<1	g/cm ³	ISO 1183
Tensile Strength	24 - 26	MPa	ISO 527
Elongation at break	110-140	%	ISO 527
Flexural Strength	1150-1200	MPa	ISO 178
Flexural Modulus	25-27	MPa	ISO 178
Izod Impact Strenght unnotched	50	Kj/m ²	ISO 180-1A
Izod Impact Strenght notched	3-4	Kj/m ²	ISO 180-1A

Processing Parameters	Values	U.M
Processing temperature	210 - 250	°C



Additional notes:

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Material quality as per samples provided.

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Recycled Granules - Black

Name of the material	PP 1428 Black C8001
Source material	Post Consumer Buckets
Granule size	2-5mm
Volume available	200 MT per month
Packing	25kg bags/Big bags
Mesh size during production	N° 40
Origin	MEA
Certification	Reach compliance declaration
Suggested Application	Injection, compounding

Properties	Values	U.M	Test Method
Melt Flow Rate	≥8	g/10min	ISO 1133 (230°C/2.16kg)
Density	≤0.95	g/cm ³	ISO 1183
Tensile Strength	16 - 30	MPa	ISO 527
Elongation at break	90 - 120	%	ISO 527
Izod Impact Strenght notched	≥7	Kj/m ²	ISO 180-1A

Processing Parameters	Values	U.M
Processing temperature	210 - 250	°C



Additional notes:

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Recycled Granules - Black

Name of the material	PP-1428-Black-1220 T2
Source material	Post Consumer Injection
Granule size	2-5mm
Volume available	200 MT per month
Packing	Big bags
Mesh size during production	N° 40
Origin	MEA
Suggested Application	Injection, compounding

Properties	Values	U.M	Test Method
Melt Flow Rate	'10 -14	g/10min	ISO 1133 (230°C/2.16kg)
Density	1.03-1.08	g/cm ³	ISO 1183
Tensile Strength	15 - 25	MPa	ISO 527
Flexural Modulus	1750 - 2200	MPa	ISO 178
Flexural Stress	≥35	MPa	ISO 178
Izod Impact Strenght notched	≥5	Kj/m ²	ISO 180-1A

Processing Parameters	Values	U.M
Processing temperature	210 - 250	°C



Additional notes:

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Recycled Granules - Natural

Name of the material	LDPE-11-Natural
Source material	Post Consumer Films
Granule size	2 -5mm
Volume available	200 MT per month
Packing	25kg bags / Big bags
Mesh size during production	N° 100
Origin	ASIA
Certification	GRS
Suggested Application	Blown film

Properties	Values	U.M	Test Method
Melt Flow Rate	0.5 - 0.9	g/10min	ISO 1133 (190°C/2.16kg)
Density	0.91 - 0.94	g/cm ³	ISO 1133
Tensile Strength	12	MPa	ISO 527
Elongation at break	320	%	ISO 527
Flexural Strength	6	MPa	ISO 178
Flexural Modulus	135	MPa	ISO 178
Impact Strength	47	Kj/m ²	ISO 180

Processing Parameters	Values	U.M
Processing temperature	180 - 210	°C



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Recycled Granules - Natural

Name of the material	LDPE-34-Natural
Source material	Post Industrial Films
Granule size	2 -5mm
Volume available	100 MT per month
Packing	25kg bags / Big bags
Mesh size during production	N° 100
Origin	ASIA
Certification	GRS
Suggested Application	Blown film

Properties	Values	U.M	Test Method
Melt Flow Rate	0.8 - 1.5	g/10min	ISO 1133 (190°C/2.16kg)
Melt Flow Rate	2.8 - 4.5	g/10min	ISO 1133 (190°C/5kg)
Density	0.92 - 0.94	g/cm ³	ISO 1183
Tensile Strength	12 -16	MPa	ISO 527
Elongation at Break	550 - 700	%	ISO 527
Flexural Strength	3 - 4	MPa	ISO 178
Flexural Modulus	100 - 115	MPa	ISO 178
Izod Impact Strength	40 -45	KJ/m ²	ISO 180/1A

Processing Parameters	Values	U.M
Processing temperature	180 - 210	°C



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Recycled - Granules Natural

Name of the material	LDPE 1402 Natural
Source material	Post Industrial Films
Granule size	2 -5mm
Volume available	100 MT per month
Packing	Big bags
Mesh size during production	Nº 100
Origin	MEA
Suggested Application	Blown film

Properties	Values	U.M	Test Method
Melt Flow Rate	0.5 - 0.9	g/10min	ISO 1133 (190°C/2.16kg)
Density	0.92 - 0.94	g/cm ³	ISO 1183

Processing Parameters	Values	U.M
Processing temperature	180 - 210	°C



Additional notes:

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Recycled Granules – Semi Transparent

Name of the material	LDPE-34-Semi Transparent
Source material	Post Consumer & Post Industrial Films
Granule size	2 -6mm
Volume available	100 MT per month
Packing	25kg bags / Big bags
Mesh size during production	Nº 100
Origin	Asia
Suggested Application	Blown film

Properties	Values	U.M	Test Method
Melt Flow Rate	0.8 - 1.5	g/10min	ISO 1133 (190°C/2.16kg)
Melt Flow Rate	2.8 - 4.5	g/10min	ISO 1133 (190°C/5kg)
Density	0.92 - 0.94	g/cm ³	ISO 1183
Tensile Strength	12 -16	MPa	ISO 527
Elongation at Break	625 - 750	%	ISO 527
Flexural Strength	3.5 - 4.5	MPa	ISO 178
Flexural Modulus	115 - 145	MPa	ISO 178
Izod Impact Strength	44 -48	KJ/m ²	ISO 180/1A

Processing Parameters	Values	U>M
Processing temperature	180 - 210	°C



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Recycled Granules – Semi Transparent

Name of the material	LDPE-590-Semi Transparent
Source material	Post Consumer Films
Granule size	4 - 5mm
Volume available	200 MT per month
Packing	Big bags
Mesh size during production	N° 120
Origin	EUROPE
Suggested Application	Blown film

Properties	Values	U.M	Test Method
Melt Flow Rate	0.7 - 1.3	g/10min	ISO 1133 (190°C/2.16kg)
Density	0.918 - 0.93	g/cm ³	ISO 1183

Processing Parameters	Values	U.M
Processing temperature	180 - 210	°C



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Recycled Granules – Semi Transparent

Name of the material	LDPE-992-Semi Transparent
Source material	Post Consumer Films
Granule size	2 -5mm
Volume available	300 MT per month
Packing	Big bags
Mesh size during production	N° 140
Origin	EUROPE
Suggested Application	Blown film

Properties	Values	U.M	Test Method
Melt Flow Rate	1- 1.4	g/10min	ISO 1133 (190°C/2.16kg)
Melt Flow Rate	4 - 4.5	g/10min	ISO 1133 (190°C/5kg)
Density	0.90 - 0.92	g/cm ³	ISO 1183
Tensile Strength	13.7	MPa	ISO 527
Elongation at Break	294	%	ISO 527
Izod Impact Strength - unnotched	52	KJ/m ²	ISO 180
Izod Impact Strength - notched	51	KJ/m ²	ISO 180

Processing Parameters	Values	U.M
Melt temperature	180 - 210	°C



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Recycled Granules – Semi Transparent

Name of the material	LDPE-993-Semi Transparent
Source material	Post Consumer Films
Granule size	2 -5mm
Volume available	300 MT per month
Packing	Big bags
Mesh size during production	N° 120
Origin	EUROPE
Suggested Application	Blown film

Properties	Values	U.M	Test Method
Melt Flow Rate	0.5 - 0.9	g/10min	ISO 1133 (190°C/2.16kg)
Melt Flow Rate	1.8 - 3	g/10min	ISO 1133 (190°C/5kg)
Density	0.90 - 0.94	g/cm ³	ISO 1133
Tensile Strength	13.4	MPa	ISO 527
Elongation at Break	190	%	ISO 527
Izod Impact Strength - unnotched	52	Kj/m ²	ISO 180
Izod Impact Strength - notched	50	Kj/m ²	ISO 180

Processing Parameters	Values	U.M
Processing temperature	180 - 210	°C



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Recycled Granules – Honey Colour

Name of the material	LDPE-1406-Honey Colour
Source material	Post Consumer Films
Granule size	2 – 6mm
Volume available	100 MT per month
Packing	25kg bags / Big bags
Mesh size during production	N° 100
Origin	MEA
Suggested Application	Blown film

Properties	Values	U.M	Test Method
Melt Flow Rate	0.5 – 1.5	g/10min	ISO 1133 (190°C/2.16kg)
Melt Flow Rate	2 – 3.5	g/10min	ISO 1133 (190°C/5kg)
Density	0.91 – 0.94	g/cm ³	ISO 1183

Processing Parameters	Values	U.M
Processing temperature	180 – 210	°C



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Recycled Granules - Semi Transparent

Name of the material	LDPE 1401 Semi-transparent
Source material	Post Consumer Films
Granule size	2 - 5mm
Volume available	200 MT per month
Packing	Big bags
Mesh size during production	N° 100
Origin	MEA
Suggested Application	Pipe, garbage bags

Properties	Values	U.M	Test Method
Melt Flow Rate	0.8 - 1.4	g/10min	ISO 1133 (190°C/2.16kg)
Density	0.91 - 0.94	g/cm ³	ISO 1183
Tensile Strength	14	MPa	ISO 527
Elongation at Break	300	%	ISO 527

Processing Parameters	Values	U.M
Processing temperature	180 - 210	°C



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Recycled Granules - Grey

Name of the material	LDPE-558-Grey
Source material	Post Consumer Films
Granule size	1 - 5mm
Volume available	500 MT per month
Packing	Big bags
Mesh size during production	N° 140
Origin	EUROPE
Suggested Application	Pipe, garbage bag

Properties	Values	U.M	Test Method
Melt Flow Rate	1.2	g/10min	ISO 1133 (190°C/2.16kg)
Density	0.947	g/cm ³	ISO 1183
Tensile Strength	25	MPa	ISO 1183
Elongation at break	500	%	ISO 527

Processing Parameters	Values	U.M
Processing temperature	180 - 210	°C



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Material quality as per samples provided.

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Recycled - Granules Grey

Name of the material	LDPE 1402 Grey 500
Source material	Post Industrial Films
Granule size	2 - 5mm
Volume available	200 MT per month
Packing	Big bags
Mesh size during production	N° 100
Origin	MEA
Suggested Application	Blown film, pipe, garbage bag

Properties	Values	U.M	Test Method
Melt Flow Rate	0.5 - 0.9	g/10min	ISO 1133 (190°C/2.16kg)
Density	0.92 - 0.94	g/cm ³	ISO 1183

Processing Parameters	Values	U.M
Processing temperature	180 - 210	°C



Additional notes:

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Material quality as per samples provided.

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Recycled Granules – Dark Grey

Name of the material	LDPE-1427-Dark Grey
Source material	Post Consumer Films
Granule size	2 -6mm
Volume available	200 MT per month
Packing	Big bags
Mesh size during production	N° 130
Origin	EUROPE
Certification	EUCERPLAS
Suggested Application	Pipe, garbage bag

Properties	Values	U.M	Test Method
Melt Flow Rate	0.45 - 0.8	g/10min	ISO 1133 (190°C/2.16kg)
Melt Flow Rate	1.8 - 2.6	g/10min	ISO 1133 (190°C/5kg)
Density	0.93 - 0.96	g/cm ³	ISO 1183
Elongation at Break	18	MPa	ISO 527
Tensile Strength at Break (MD)	210	%	ISO 527
Purity of PE	>96	%	ISO 11357 (DSC)
Ash Content (800°C)	<5	%	TGA analysis

Processing Parameters	Values	U.M
Processing temperature	180 - 210	°C



Additional notes:

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Material quality as per samples provided.

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Recycled Granules – Blue

Name of the material	LDPE-1427-Blue
Source material	Post Consumer Films
Granule size	2 -6mm
Volume available	150 MT per month
Packing	Big bags
Mesh size during production	Nº 130
Origin	EUROPE
Certification	EUCERPLAS
Suggested Application	Pipe, garbage bag

Properties	Values	U.M	Test Method
Melt Flow Rate	0.45 - 0.8	g/10min	ISO 1133 (190°C/2.16kg)
Melt Flow Rate	1.8 - 2.6	g/10min	ISO 1133 (190°C/5kg)
Density	0.93 - 0.96	g/cm ³	ISO 1183
Tensile Strength	21	MPa	ISO 527
Elongation at Break	210	%	ISO 527
Purity of PE	>98	%	ISO 11357 (DSC)
Ash Content (800°C)	<5	%	TGA analysis

Processing Parameters	Values	U.M
Processing temperature	180 - 210	°C



Additional notes:

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Material quality as per samples provided.

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Recycled Granules – Black

Name of the material	LDPE-1401-Black
Source material	Post Consumer Films
Granule size	2 – 6mm
Volume available	100 MT per month
Packing	25kg bags / Big bags
Mesh size during production	N° 85
Origin	MEA
Suggested Application	Pipe, garbage bag

Properties	Values	U.M	Test Method
Melt Flow Rate	0.4 – 1.2	g/10min	ISO 1133 (190°C/2.16kg)
Melt Flow Rate	2 – 3.5	g/10min	ISO 1133 (190°C/5kg)
Density	0.91 – 0.94	g/cm ³	ISO 1183

Processing Parameters	Values	U.M
Processing temperature	180 – 210	°C



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Recycled Granules – Black

Name of the material	LDPE-1416-Black
Source material	Post Consumer Films
Granule size	2 – 6mm
Volume available	500 MT per month
Packing	25kg bags / Big bags
Mesh size during production	N° 100
Origin	MEA
Suggested Application	Pipe, garbage bag

Properties	Values	U.M	Test Method
Melt Flow Rate	0.5 – 1.5	g/10min	ISO 1133 (190°C/2.16kg)
Melt Flow Rate	2 – 3.5	g/10min	ISO 1133 (190°C/5kg)
Density	0.91 – 0.94	g/cm ³	ISO 1183

Processing Parameters	Values	U.M
Processing temperature	180 -210	°C



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Recycled Granules – Natural

Name of the material	LLDPE-11-Natural
Source material	Post Consumer Films
Granule size	1 - 5mm
Volume available	200 MT per month
Packing	25kg bags / Big bags
Mesh size during production	N° 100
Origin	ASIA
Certification	GRS
Suggested Application	Blown film, pipe, garbage bag

Properties	Values	U.M	Test Method
Melt Flow Rate	3.0 - 4.0	g/10min	ISO 1133 (190°C/2.16kg)
Melt Flow Rate	7.5 - 9.5	g/10min	ISO 1133 (190°C/5kg)
Density	0.91 - 0.93	g/cm ³	ISO 1183
Tensile Strength	22	MPa	ASTM D-638
Tensile Modulus	1200	%	ASTM D-638

Processing Parameters	Values	U.M
Processing temperature	190 - 220	°C



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Recycled Granules – Natural

Name of the material	LLDPE 1402 Semi-transparent
Source material	Post Industrial Films
Granule size	2 – 5mm
Volume available	50 MT per month
Packing	Big bags
Mesh size during production	Nº 100
Origin	MEA
Suggested Application	Blown film, pipe, garbage bag

Properties	Values	U.M	Test Method
Melt Flow Rate	2.0 – 3.0	g/10min	ISO 1133 (190°C/2.16kg)
Density	0.91 – 0.93	g/cm ³	ISO 1183

Processing Parameters	Values	U.M
Processing temperature	190 –220	°C



Additional notes:

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Recycled Granules – Semi Transparent

Name of the material	LLDPE-33-Semi Transparent
Source material	Post Industrial Films
Granule size	2 -5mm
Volume available	50 MT per month
Packing	25kg bags
Mesh size during production	N° 120
Origin	ASIA
Suggested Application	Blown film, pipe, garbage bag

Properties	Values	U.M	Test Method
Melt Flow Rate	1.3 – 2.5	g/10min	ISO 1133 (190°C/2.16kg)
Density	0.91 – 0.93	g/cm ³	ISO 1183
Tensile Strength	13	MPa	ISO 527
Elongation at break	710	%	ISO 527
Flexural strength	4	MPa	ISO 178
Flexural modulus	120	MPa	ISO 178
Impact strength	44	KJ/m ²	ISO 180/1A

Processing Parameters	Values	U.M
Processing temperature	190 – 220	°C



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Recycled Granules - Semi Transparent

Name of the material	LLDPE 1405 Semi-transparent
Source material	Post consumer films
Granule size	2 - 5mm
Volume available	50 MT per month
Packing	Big bags
Mesh size during production	N° 80
Origin	MEA
Suggested Application	Blown film, pipe, garbage bag

Properties	Values	U.M	Test Method
Melt Flow Rate	2.0 - 3.0	g/10min	ISO 1133 (190°C/2.16kg)
Density	0.91 - 0.93	g/cm ³	ISO 1183

Processing Parameters	Values	U.M
Processing temperature	190 -220	°C



Additional notes:

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Recycled Granules - Natural

Name of the material	HDPE-1404-Natural
Source material	Post Consumer Bottles
Granule size	1 - 5mm
Volume available	60 MT per month
Packing	Big bags
Mesh size during production	N° 100
Origin	MEA
Suggested Application	Blown molding

Properties	Values	U.M	Test Method
Melt Flow Rate	0.4 -0.6	g/10min	ISO 1133 (190°C/2.16 kg)
Melt Flow Rate	2.0 - 2.6	g/10min	ISO 1133 (190°C/5 kg)
Density	0.94 -0.96	g/cm ³	ISO 1133
Ash content	< 1.5	%	TS EN ISO 3451-1
Moisture	< 0.1	%	TS EN 12099
HDPE content	> 94	%	FT-IR

Processing Parameters	Values	U.M
Processing temperature	190 - 230	°C



Additional notes:

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Recycled Granules - Natural

Name of the material	HDPE-36-Natural
Source material	Post Consumer Bottles
Granule size	2 -5mm
Volume available	200 MT per month
Packing	25kg bags / Big bags
Mesh size during production	Nº 120
Origin	ASIA
Suggested Application	Blown molding

Properties	Values	U.M	Test Method
Melt Flow Rate	0.467	g/10min	ASTM D 1236 (190°C/2.16 kg)
Density	0.94 - 0.96	g/cm ³	ASTM D 792
Tensile Strength	310	kg/cm ²	ASTM D 638
Flexural Strength at Yield	280	kg/cm ²	ASTM D 790
Flexural Modulus	8500	kg/cm ²	ASTM D 790
Izod Impact Strength	22	Kg.cm/cm	ASTM D 256

Processing Parameters	Values	U.M
Processing temperature	190 - 230	°C



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Recycled Granules - Natural

Name of the material	HDPE-988-Natural
Source material	Post Consumer Bottles
Granule size	2 -4mm
Volume available	500 MT per month
Packing	Big bags
Mesh size during production	N° 100
Origin	EUROPE
Certification	EUCERPLAS
Suggested Application	Blow molding, thick film

Properties	Values	U.M	Test Method
Melt Flow Rate	0.3 - 0.5	g/10min	ISO 1133 (190°C/2.16 kg)
Melt Flow Rate	1.3 - 2.0	g/10min	ISO 1133 (190°C/5 kg)
Density	0.945 - 0.960	g/cm ²	ISO 1183
Tenstile Strength	23	MPa	ISO 527
Tenstile Modulus	780	MPa	ISO 527
Flexural Modulus	800	MPa	ISO 178

Processing Parameters	Values	U.M
Processing temperature	190 - 230	°C



Additional notes:

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Recycled - Granules Green

Name of the material	1404 HDPE Green
Source material	Post Consumer Bottles
Granule size	2 - 5mm
Volume available	100 MT per month
Packing	Big bags
Mesh size during production	N° 60
Origin	MEA
Suggested Application	Blow molding, compounding

Properties	Values	U.M	Test Method
Melt Flow Rate	0.2 - 0.4	g/10min	ISO 1133 (190°C/2.16 kg)
Melt Flow Rate	1.4 - 2.0	g/10min	ISO 1133 (190°C/5 kg)
Density	≤0.95	g/cm ²	ISO 1183

Processing Parameters	Values	U.M
Processing temperature	190 - 230	°C



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