



PLASTI CITY INDUSTRY LTD

Since 2009

PRODUCT & SERVICES CATALOG



Think green, act green, recycle.



ABOUT US



Plasti City Industry Ltd

Founded in 2009, Plasti City is **Israel's #1 plastic recycler: most of the country's recycling is done in Plastic City.**

With a commitment to ecological balance, we transform discarded plastic waste into high-grade granules and shredded plastic.

As pioneers in sustainable plastics, our mission is clear:

- ✓ Protect the environment
- ✓ Deliver consistent quality
- ✓ Support global industries with eco-friendly alternatives

Our production methods ensure that no disturbance is caused to the natural environment, keeping our facilities eco-friendly and our products safe, reliable, and sustainable.

THE PROCESS

The automated recycling line is designed to streamline the entire transformation of post-consumer plastic waste into high-quality reusable material.

The process begins at the sorting station, where advanced optical sensors, mechanical separators, and conveyor-based diverters identify and separate the plastic waste according to its polymer type. At this stage, the system distinguishes between polypropylene (PP) and high-density polyethylene (HDPE) with high precision. Each stream—PP and HDPE—is automatically routed to a dedicated channel, ensuring material purity right from the start. Once the plastics are sorted, they move along automated conveyors

to the shredding units. Here, robust industrial blades cut the waste into uniform flakes or chips, reducing the volume and preparing the material for further processing. Shredding not only facilitates handling but also increases the efficiency of subsequent cleaning and melting.

The shredded material is then transferred to the washing section, where it undergoes multi-stage cleaning. The washing system is designed to remove labels, dirt, and any residual contaminants that may compromise the quality of the recycled plastic. This stage often involves a combination of water baths, friction washers, and separation tanks to ensure the highest possible level of cleanliness.



After washing, the clean flakes proceed to the recycling phase, which includes melting, filtering, and pelletizing. The plastics are melted down at carefully controlled temperatures to prevent degradation, then filtered to remove any remaining fine impurities. The molten material is subsequently extruded and cut into uniform pellets or granules, which serve as high-grade raw material for the production of new plastic products.

To further optimize consistency, the pellets undergo a re-shredding or

granulation process, ensuring uniform size, shape, and density. This final step guarantees that the recycled material meets industrial standards for reprocessing and manufacturing.

Throughout the entire operation, the automated line is designed to minimize human intervention, improve efficiency, and reduce contamination risks, resulting in environmentally sustainable, high-quality recycled plastics ready for reuse in a wide range of applications.





RECYCLING PROCESS



**From Waste to
Raw Material –
Our Sustainable
Journey**



1. Collection

Gathering discarded plastics from bins, factories, and sorting stations.

2. Sorting

Separating materials (HDPE, LDPE, PP, PET) by type and grade.

3. Cleaning

Removing residues, oils, adhesives, and contaminants.

4. Shredding

Reducing plastics into flakes for efficient processing.

5. Granulating

Melting and reshaping flakes into granules.

6. Reuse

Supplying industries with sustainable raw materials.

HDPE Purple



Properties	Test Method	Typical value
Density, g/cm ³	ASTM D792	<0.96
Moisture (residual)	110c/9min	<0.12%
MFI (190/2.16kg), (g/10 min)	ASTM D 1238	0.14
MFI (190/5kg), (g/10 min)	ASTM D 1238	0.87

HDPE Black



Properties	Test Method	Typical value
Density, g/cm ³	ASTM D792	<0.96
Moisture (residual)	110c/9min	<0.12%
MFI (190/2.16kg), (g/10 min)	ASTM D 1238	0.14
MFI (190/5kg), (g/10 min)	ASTM D 1238	0.87

HDPE Purple Flakes



Properties	Test Method	Typical value
Density, g/cm ³	ASTM D792	<0.96
Moisture (residual)	110c/9min	<0.12%
Particle Size	ISO 565	12-14mm
Containments	PVC/PET/ Metals	0%

- HDPE-T is a Recycled High Density Polyethylene.
- This brand is produced from 100% post-consumer contribution to sustainable use of resources and circular economy.

Popular uses:



jerrycans



bags



pipes &
hoses

HDPE Black Flakes



Properties	Test Method	Typical value
Density, g/cm ³	ASTM D792	<0.96
Moisture (residual)	110c/9min	<0.12%
Particle Size	ISO 565	12-14mm
Containments	PVC/PET/ Metals	0%

- HDPE-T is a Recycled High Density Polyethylene.
- This brand is produced from 100% post-consumer contribution to sustainable use of resources and circular economy.

Popular uses:



jerrycans



bags



pipes &
hoses

HDPE Yellow



Properties	Test Method	Typical value
Density, g/cm ³	ASTM D792	<0.96
Moisture (residual)	110c/9min	<0.12%
MFI (190/2.16kg), (g/10 min)	ASTM D 1238	0.14
MFI (190/5kg), (g/10 min)	ASTM D 1238	0.87

HDPE Gray



Properties	Test Method	Typical value
Density, g/cm ³	ASTM D792	<0.96
Moisture (residual)	110c/9min	<0.12%
MFI (190/2.16kg), (g/10 min)	ASTM D 1238	0.14
MFI (190/5kg), (g/10 min)	ASTM D 1238	0.87

HDPE Yellow Flakes



Properties	Test Method	Typical value
Density, g/cm ³	ASTM D792	<0.96
Moisture (residual)	110c/9min	<0.12%
Particle Size	ISO 565	12-14mm
Containments	PVC/PET/ Metals	0%

- HDPE-T is a Recycled High Density Polyethylene.
- This brand is produced from 100% post-consumer contribution to sustainable use of resources and circular economy.

Popular uses:



jerrycans



bags



pipes &
hoses

HDPE Flakes



Properties	Test Method	Typical value
Density, g/cm ³	ASTM D792	<0.96
Moisture (residual)	110c/9min	<0.12%
Particle Size	ISO 565	12-14mm
Containments	PVC/PET/ Metals	0%

- HDPE-T is a Recycled High Density Polyethylene.
- This brand is produced from 100% post-consumer contribution to sustainable use of resources and circular economy.

Popular uses:



jerrycans



bags



pipes &
hoses

LDPE



Properties	Test Method	Typical value
Density, g/cm ³	ASTM D792	0.91-0.94
Moisture (residual)	110c/9min	<0.12%
MFI (190/2.16kg), (g/10 min)	ASTM D 1238	0.14
MFI (190/5kg), (g/10 min)	ASTM D 1238	0.87

LDPE Flakes



Properties	Test Method	Typical value
Density, g/cm ³	ASTM D792	0.91-0.94
Moisture (residual)	110c/9min	<0.12%
Particle Size (Flakes)	ISO 565	20-50 mm
Particle Size (Agglomerated)	ISO 565	8-10 mm
Containments	PVC/PET/ Metals	0%

- LDPE is a recycled Low Density Polyethylene.
- This brand is produced from 100% post industrial waste.

Popular uses:



blown
film



pipes &
hoses

LDPE Film



Properties	Test Method	Typical value
Density, g/cm ³	ASTM D792	0.91-0.94
Moisture (residual)	110c/9min	<0.12%
MFI (190/2.16kg), (g/10 min)	ASTM D 1238	0.14
MFI (190/5kg), (g/10 min)	ASTM D 1238	0.87

LDPE Flakes



Properties	Test Method	Typical value
Density, g/cm ³	ASTM D792	0.91-0.94
Moisture (residual)	110c/9min	<0.12%
Particle Size (Flakes)	ISO 565	20-50 mm
Particle Size (Agglomerated)	ISO 565	8-10 mm
Containments	PVC/PET/ Metals	0%

- LDPE is a recycled Low Density Polyethylene.
- This brand is produced from 100% post-industrial contribution to sustainable use of resources and circular economy.

Popular uses:



pipes &
hoses



banana
bags



blown
film

LDPE White



Properties	Test Method	Typical value
Density, g/cm ³	ASTM D792	0.91-0.94
Moisture (residual)	110c/9min	<0.12%
MFI (190/2.16kg), (g/10 min)	ASTM D 1238	0.14
MFI (190/5kg), (g/10 min)	ASTM D 1238	0.87

PP Black



Properties	Test Method	Typical value
Density, g/cm ³	ASTM D792	<0.96
Moisture (residual)	110c/9min	<0.12%
MFI (230/2.16kg), (g/10 min)	ASTM D 1238	(10-15), (15-20), (20-30)
Impact notch, J/m (23°C)	ASTM D 1238	>55

LDPE Flakes



Properties	Test Method	Typical value
Density, g/cm ³	ASTM D792	0.91-0.94
Moisture (residual)	110c/9min	<0.12%
Particle Size (Flakes)	ISO 565	20-50 mm
Particle Size (Agglomerated)	ISO 565	8-10 mm
Containments	PVC/PET/ Metals	0%

- LDPE is a recycled Low Density Polyethylene.
- This brand is produced from 100% post-industrial contribution to sustainable use of resources and circular economy.

Popular uses:



blown
film



pipes &
hoses

PP Flakes



Properties	Test Method	Typical value
Density, g/cm ³	ASTM D792	<0.96
Moisture (residual)	110c/9min	<0.12%
Particle Size	ISO 565	12-14mm
Containments	PVC/PET/ Metals	0%

- PP-T is a recycled Polypropylene.
- This brand is produced from 100% post-consumer contribution to sustainable use of resources and circular economy.

Popular uses:



blown
film



pipes &
hoses

PP Green



Properties	Test Method	Typical value
Density, g/cm3	ASTM D792	<0.96
Moisture (residual)	110c/9min	<0.12%
MFI (230/2.16kg), (g/10 min)	ASTM D 1238	(10-15), (15-20), (20-30)
Impact notch, J/m (23°C)	ASTM D 1238	>55

PP Grey



Properties	Test Method	Typical value
Density, g/cm3	ASTM D792	<0.96
Moisture (residual)	110c/9min	<0.12%
MFI (230/2.16kg), (g/10 min)	ASTM D 1238	(10-15), (15-20), (20-30)
Impact notch, J/m (23°C)	ASTM D 1238	>55

PP Flakes



Properties	Test Method	Typical value
Density, g/cm3	ASTM D792	<0.96
Moisture (residual)	110c/9min	<0.12%
Particle Size	ISO 565	12-14mm
Containments	PVC/PET/ Metals	0%

- PP-T is a recycled Polypropylene.
- This brand is produced from 100% Post-consumer contributing to sustainable use of resources and circular economy.

Popular uses:



buckets



garden furniture



pipes & hoses

PP Flakes



Properties	Test Method	Typical value
Density, g/cm3	ASTM D792	<0.96
Moisture (residual)	110c/9min	<0.12%
Particle Size	ISO 565	12-14mm
Containments	PVC/PET/ Metals	0%

- PP-T is a recycled Polypropylene.
- This brand is produced from 100% post-consumer contribution to sustainable use of resources and circular economy.

Popular uses:



blown film



pipes & hoses

PP Red



Properties	Test Method	Typical value
Density, g/cm3	ASTM D792	<0.96
Moisture (residual)	110c/9min	<0.12%
MFI (230/2.16kg), (g/10 min)	ASTM D 1238	(10-15), (15-20), (20-30)
Impact notch, J/m (23°C)	ASTM D 1238	>55

PP Red Delim



Properties	Test Method	Typical value
Density, g/cm3	ASTM D792	<0.96
Moisture (residual)	110c/9min	<0.12%
MFI (230/2.16kg), (g/10 min)	ASTM D 1238	(10-15), (15-20), (20-30)
Impact notch, J/m (23°C)	ASTM D 1238	>55

PP Flakes



Properties	Test Method	Typical value
Density, g/cm3	ASTM D792	<0.96
Moisture (residual)	110c/9min	<0.12%
Particle Size	ISO 565	12-14mm
Containments	PVC/PET/ Metals	0%

- PP-T is a recycled Polypropylene.
- This brand is produced from 100% Post-consumer contributing to sustainable use of resources and circular economy.

Popular uses:



buckets



garden
furniture



pipes &
hoses



blown
film

PP Red Grinded



Properties	Test Method	Typical value
Density, g/cm3	ASTM D792	<0.96
Moisture (residual)	110c/9min	<0.12%
Particle Size	ISO 565	12-14mm
Containments	PVC/PET/ Metals	0%

- PP-T is a recycled Polypropylene.
- This brand is produced from 100% post-consumer contribution to sustainable use of resources and circular economy.

Popular uses:



buckets



garden
furniture



pipes &
hoses



blown
film

PP White



Properties	Test Method	Typical value
Density, g/cm3	ASTM D792	<0.96
Moisture (residual)	110c/9min	<0.12%
MFI (230/2.16kg), (g/10 min)	ASTM D 1238	(10-15), (15-20), (20-30)
Impact notch, J/m (23°C)	ASTM D 1238	>55

PP Batteries



Properties	Test Method	Typical value
Density, g/cm3	ASTM D792	<0.96
Moisture (residual)	110c/9min	<0.12%
MFI (230/2.16kg), (g/10 min)	ASTM D 1238	6-8
Impact notch, J/m (23°C)	ASTM D 256	>55
Containments	PVC / PET / Metals / PB	0%

PP White Grinded



Properties	Test Method	Typical value
Density, g/cm3	ASTM D792	<0.96
Moisture (residual)	110c/9min	<0.12%
Particle Size	ISO 565	12-14mm
Containments	PVC/PET/ Metals	0%

- PP-T is a recycled Polypropylene.
- This brand is produced from 100% Post-consumer contributing to sustainable use of resources and circular economy.

Popular uses:



buckets



garden furniture



pipes & hoses

PP Waste Batteries Grinded



Properties	Test Method	Typical value
Density, g/cm3	ASTM D792	<0.96
Moisture (residual)	110c/9min	<0.12%
Containments	PVC/PET/ Metals	0%

- PP-T is a recycled Polypropylene.
- This brand is produced from 100% post-consumer contribution to sustainable use of resources and circular economy.

Popular uses:



batteries



crates



pallets

Plastic Bales

- Mixed PP and HDPE
- 100% post consumer.





Distributor

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KEEPING THE ENVIRONMENT SAFE
WHILE ENSURING HIGH QUALITY.