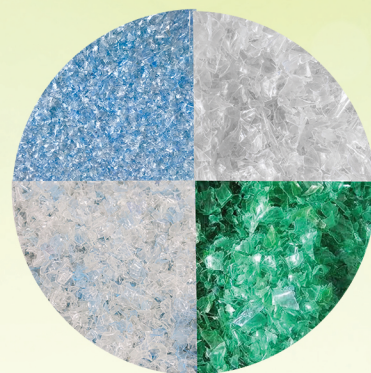




Technical Data Sheet

rPET FLAKES



Product

Polyethylene Terephthalate (PET) Flakes

Product Description

PET Flakes are manufactured from post-consumer PET bottles with a non-food content of less than 5%.

PET flakes are used for Extrusion in Plastic industry.

Grades IRF-C78, IRF-CB78, IRF-G78 and IRF-B70 have been tested and proven safe for food packaging applications.

Properties	Unit	IRF-C78	IRF-CB78	IRF-G78	IRF-B70	Test Method	Test Equipment
Intrinsic Viscosity	dl/g	0.70 – 0.78	0.70 – 0.78	0.70 – 0.78	0.64 – 0.70	ASTM D4603	Ubbelohde Viscometer
Bulk density (min./avg./max.)	g/cc	0.25 – 0.35	0.25 – 0.35	0.25 – 0.35	0.25 – 0.30	ASTM D1895	Funke Gerber density meter
Flake Size	mm	2 -12 mm: 92% 14 mm: <5% <2 mm: 5-8%	2 -12 mm: 92% 14 mm: <5% <2 mm: 5-8%	2 -12 mm: 92% 14 mm: <5% <2 mm: 5-8%	2 -12 mm: 92% 14 mm: <5% <2 mm: 5-8%	Sieve test	Glenammer sieve shaker
Moisture	%	Max 1	Max 1	Max 1	Max 1	Moisture Analysis	Ohaus Moisture Analyzer
Clear flakes	%	≥ 98	≥ 80	NA	≤ 10	Visual sorting	-
Blue flakes	%	≤ 2	≤ 20	≤ 5	≥ 90	Visual sorting	-
Green flakes	%	NA	NA	≥ 93	NA	Visual sorting	-
Other colors	%	NA	NA	≤ 2	≤ 0.05	Visual sorting	-
Glues	ppm	≤ 20	≤ 20	≤ 20	≤ 20	Oven test	Oven
Hot melts	ppm	≤ 20	≤ 20	≤ 20	≤ 20	Oven test	Oven
Metals (Ferrous)	ppm	≤ 10	≤ 10	≤ 10	≤ 10	Magnet test & Visual sorting	Magnet
Metals (non-ferrous)	ppm	≤ 10	≤ 10	≤ 10	≤ 10	Magnet test & Visual sorting	magnet
PVC Label	ppm	≤ 20	≤ 20	≤ 20	≤ 20	Oven test	Oven
PVC flakes	ppm	≤ 20	≤ 20	≤ 20	≤ 20	Oven test	Oven
PA content	ppm	≤ 15	≤ 15	≤ 15	≤ 15	Oven test	Oven
Poly Carbonate	ppm	≤ 15	≤ 15	≤ 15	≤ 15	Oven test	Oven
PE, PP	ppm	≤ 15	≤ 15	≤ 15	≤ 20	Oven test	Oven
Fines	%	≤ 0.5	≤ 0.5	≤ 0.5	≤ 0.5	Sieve test	Sieve analyzer
Paper, Wood	ppm	≤ 10	≤ 10	≤ 10	≤ 5	Oven test	Oven
Yellow Flakes	ppm	≤ 2000	≤ 2000	≤ 2000	500-700	Oven test	Oven

The specification describes a grade of clear co-polyester in the form of pellets which meets all of the requirements when tested as directed by the reference methods.

Ismail **GreenPET** Project



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