

Technical Data Sheet: FG rPET

Product Description:

PET regranulates are made out PET Flakes manufactured from post consumer PET bottles with a non-food content of less than 5%. Polyethylene terephthalate (PET) is a linear thermoplastic resin that is created by the polycondensation of terephthalic acid and ethylene glycol. PET is a semi-crystalline plastic featuring high strength and flexibility, excellent machining properties, which ensures a wide range of applications.



Specification		Values	Unit	Test method
Color		transparent	-	-
Color value	L	67-71		Color test
	a	-3 to -1		Color test
	b	-1 to 3		Color test
Intrinsic viscosity (IV)		0,80 ± 0,02	dl/g	IV test
Mechanical characteristics				
Granules geometry		spherical shape	-	-
Number of granules per gram		40-60	pcs/g	Laboratory balance
Bulk Density		> 900	kg/m ³	Bulk density test
Filter size		40	µm	-
Physical/chemical characteristics				
Moisture content		< 0.1	%	Moisture test
Melting Point		240-270	°C	-
Purity values				
Acetaldehyde		< 0,1	ppm	GC test
Benzene		< 0,165	ppm	GC test
Limonene		< 0,016	ppm	GC test

Packaging

Big Bags: 90x90x135 stored on wooden pallets.

Storage conditions

No exposure to direct sunlight. Keep away from heat, humidity and bad weather. Storage temperature max 25 °C.

Comments:

These values are average values and can range within the given limits. All our products are suitable for further processing. More information or specific offers are available on request. An Application for the authorisation of a new recycling process was submitted with the European Food Safety Authority (EFSA), Question number: EFSA-Q-2022-00548. In accordance with the Commission Regulation (EC) No. 2022/1616, Article 31. on recycled plastic materials and articles intended to come into contact with foods, processes subject to an application received by European Food Safety Authority (EFSA) before 10 July 2023 may continue after that date to be used to place recycled plastic on the market without authorisation, until they are notified of a decision on their authorisation. Produced material rPET FG is in accordance with the Commission Regulation (EU) No. 10/2011 on plastic materials and articles intended to come into contact with food