



PT. LANGGENG JAYA PLASTINDO

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CERTIFICATE OF ANALYSIS

1. Scope

This purchases specification concerns clear rPET flake made of recycled bottles for use in extrusion processes

2. Technical specs

Source		Post-consumer packaging		
Product / ID Name		SB SUPER A / HW01 - A		
Chemical Name		Polyethylene Terephthalate		
CAS Number		25038-59-9		
Production Batch Number		HW01SA0731		
Date of Production		July 31st, 2023		
Form		Flakes		
Color		Clear		
NO.	PROPERTIES	NOMINAL VALUE	RESULT	TESTING METHOD
1	Wash Process			Hot Wash
2	Color	Clear	Clear	Visual
3	Flake Size	≤12 mm	10,91	Manual measuring
4	PVC Content	≤100ppm	31,20	Sorting
5	I-V (dl/gr)	0.7 dl/gr (± 0,03 dl/gr)	0,72	ASTM D 1238 (2.16 kg)
6	Moisture	0.8 % (± 0,3%)	0,93	30 min at 160°C
7	Other Impurity	≤200 ppm	16,20	Sorting
8	Glue Residue / Glue	≤200 ppm	160,90	Sorting
9	Label	≤50 ppm	12,33	Sorting
10	PE and PP	≤100 ppm	27,00	Sorting
11	Metal	≤50 ppm	0,00	Sorting and magnet
12	Yellow Flakes			
	Before Oven	≤ 1000 ppm	563,50	Sorting
	After Oven	≤ 7000 ppm	5196,80	Sorting, after oven 200°C/20min
13	Colored Flakes	≤ 800 ppm	100,52	Sorting
14	Light Blue	≤ 800 ppm	332,07	Sorting
15	Color			Color measurement to DIN 6174
	Color Before Oven			
	L*	65 ± 7	62,84	X-Rite
	a*	n/a	-0,68	X-Rite
	b*	-0,5 ± 0,6	-0,07	X-Rite
	Color After Oven			
	L*	65 ± 7	62,03	X-Rite, after oven 200°C/20min
	a*	n/a	-1,09	X-Rite, after oven 200°C/20min
	b*	-0,5 ± 0,6	-1,03	X-Rite, after oven 200°C/20min
16	pH value of PET flakes	Neutral	7,32	Steering 10min, pH meter
17	Bulk Density	290 (±50) g/liter	273,90	ASTM D1895 (Tes Method C)

Remarks regarding raw material:

Since PET Flakes Sorter are waste material coming from the flakes washing process, the values listed above shall be seen as reference values. PET flakes are strictly made out of post- consumer PET Bottles and post-consumer PET packaging. The values mentioned above can be referred to internal test procedures and can range within the given limits.

Laboratory - LJP
Dept. Quality Control

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