



# PT. LANGGENG JAYA PLASTINDO

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## CERTIFICATE OF ANALYSIS

### 1. Scope

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

### 2. Technical specs

Source		Post-consumer packaging		
Product / ID Name		BM SUPER AA / HW04 - AA		
Chemical Name		Polyethylene Terephthalate		
CAS Number		25038-59-9		
Production Batch Number		HW04SA0822		
Date of Production		August 22nd, 2023		
Form		Flakes		
Color		Light Blue		
NO.	PROPERTIES	NOMINAL VALUE	RESULT	TESTING METHOD
1	Wash Process			Hot Wash
2	Color	Light Blue	Light Blue	Visual
3	Flake Size	≤12 mm	10,46	Manual measuring
4	PVC Content	≤50ppm	29,59	Sorting
5	I-V (dl/gr)	0.7 dl/gr (± 0,03 dl/gr)	0,71	ASTM D 1238 (2.16 kg)
6	Moisture	0.8 % (± 0,3%)	0,93	30 min at 160°C
7	Other Impurity	≤100 ppm	24,11	Sorting
8	Glue Residue / Glue	≤200 ppm	87,88	Sorting
9	Label	≤50 ppm	18,53	Sorting
10	PE and PP	≤50 ppm	13,00	Sorting
11	Metal	≤30 ppm	0,00	Sorting and magnet
12	Yellow Flakes			
	Before Oven	≤ 800 ppm	261,70	Sorting
	After Oven	≤ 6000 ppm	3132,83	Sorting, after oven 200°C/20min
13	Colored Flakes	≤ 600 ppm	115,30	Sorting
14	Color			Color measurement to DIN 6174
	Color Before Oven			
	L*	n/a	54,79	X-Rite
	a*	n/a	-2,42	X-Rite
	b*	n/a	-8,49	X-Rite
	Color After Oven			
	L*	n/a	52,19	X-Rite, after oven 200°C/20min
	a*	n/a	-2,44	X-Rite, after oven 200°C/20min
	b*	n/a	-9,34	X-Rite, after oven 200°C/20min
15	pH value of PET flakes	Neutral	7,11	Steering 10min, pH meter
16	Bulk Density	210 (±50) g/liter	222,74	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. 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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