

TECHNICAL DATA SHEET (TDS)

FullCycle™ PCR PET SMR6313

100% PCR PET, IV 0.83, for drinking water bottles, personal care bottles, PET sheets, etc.

DESCRIPTION

FullCycle™ PCR PET SMR6313 is a 100% Post-consumer recycled (PCR) PET resin. It use 100% drinking water PET bottles as the raw materials, and produced by sorting, de-labeling, regrinding, cold wash, hot wash, flakes sorting, melting, pelletization, and SSP IV rebuilding. The product complies with GRS (Global Recycled Standard) certification and food contact materials (FCM) regulations.

PROPERTIES

Item		Typical Value	UoM	Standard
Density		1.39 ~ 1.40	g/m³	ISO 1183
I.V. (3:2)		0.83 ± 0.02	dl/g	ISO 1628-5
Color	L	≥75	/	ASTM D6290
	a	-4 ~ 0	/	
	b	-3 ~ -1	/	
Mesh size		20	µm	NA
Black dots	> 1mm	0	%	Internal
	0.5 ~ 1mm	< 3	%	
	0.2 ~ 0.5mm	< 5	%	
Melting point		250± 5	°C	ASTM D3418
DEG content		1.30	%	GB/T 17931-2018
COOH content		~ 35	mol/t	GB/T 17931-2018
Moisture content		< 0.2	%	GB/T 14190-2017
Ash content		< 0.05	%	GB/T 14190-2017
Metal content		< 5	mg/kg	GB/T 14190-2017
Powder content		< 50	mg/kg	GB/T 14190-2017
Weight/ 100 pellets		1.6	g	Internal
Bulk Density		900 ± 50	Kg/m³	ISO 12418-2

* Data shown above are representative values for reference purposes only, and not to be construed as specifications.

APPLICATIONS

Drinking water bottles
PET sheets

Personal care bottles
Thermal forming boxes

COMPLIANCE

FDA

REACH (240 SVHC)

EU10/2011

RoHS Directive (EU) 2011/65

PRODUCTS FEATURES

High transparency

Good color performance

Stable viscosity

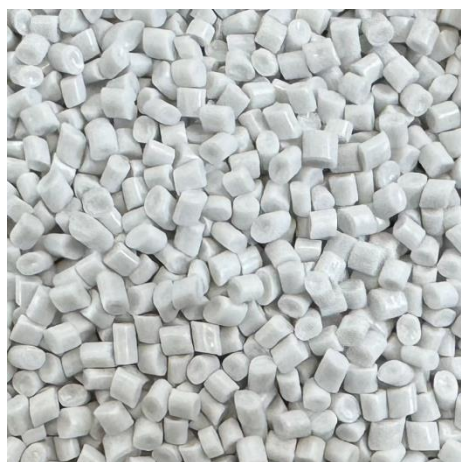
Low impurities

PACKING

Mass production: jumbo bags, 1000KG/bag or 1050KG/bag.

Trial samples: 25kg/bag.

PICTURE



PROCESSING CONDITIONS

FullCycle™ PCR PET SMR6313 needs to be dried at 170°C for 5-6 hours before use. Moisture content should be controlled less than 50ppm.

STORAGE

FullCycle™ PCR PET SMR6313 should be stored in room temperature with dry condition. Improper storage can cause the resins degradation and quality issues of the final products. For more details, please refer to the MSDS or contact your sales representative.

DISCLAIMER

All data generated by SmartLoop lab team, SmartLoop reserves the rights to update this document without notifications.

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