



## 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 uses 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/m <sup>3</sup>	ISO 1183
I.V. (3:2)	0.83	dl/g	ISO 1628-5
Color	L	> 80	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 14190-2017
COOH content	~ 35	mol/t	GB/T 14190-2017
Water content	< 0.2	%	GB/T 14190-2017
Ash content	< 0.05	%	GB/T 9345.2-2008
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/m <sup>3</sup>	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.  
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 Smart New Materials lab team, SmartLoop reserves the rights to update this document without notifications.

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