

TECHNICAL DATA SHEET (TDS)

FullCycle™ PCR PET SMR6312

100% PCR PET, IV 0.68, color toned, for injection parts, stationaries, etc.

DESCRIPTION

FullCycle™ PCR PET SMR6312 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, filter and extrusion, pelletization, and crystallization processes. 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 ³	ISO 1183
I.V. (3:2)		0.68	dl/g	ISO 1628-5
Color	L	> 75	/	ASTM D6290
	a	-4 ~ 0	/	
	b	-4 ~ 0	/	
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 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

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

APPLICATIONS

Injection boxes

Stationary

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, 1100KG/bag or 1000KG/bag.

Trial samples: 25kg/bag.

PICTURE



PROCESSING CONDITIONS

FullCycle™ PCR PET SMR6312 needs to be dried at 170°C for 4-6 hours before use. Moisture content should be controlled less than 50ppm.

STORAGE

FullCycle™ PCR PET SMR6312 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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