SHANGHAI SMARTLOOP INDUSTRIAL CO., LTD



TECHNICAL DATA SHEET FullCycle[™] PCR PP SMR1202 (Natural color, food grade)

100% Post-Consumer Recycled Polypropylene For Extrusion, Blowing Molding Process.

DESCRIPTION

PCR PP SMR1202 is a 100% PCR (post-consumer recycled) polypropylene material with a low melt flow rate and good impact resistance, designed for extrusion (blowing) molding process.

PCR PP SMR1202 is made from 100% PCR juice bottles, these products are manufactured through high quality recycling process, consist of hot washing, melt filtration, Pelletization and degassing etc., comply with GRS (Global Recycled Standard) and food contact materials (FCM) regulations.

APPLICATIONS

Food Containers Tubes

SPECIAL FEATURES

Lower impurity content control

COMPLIANCE

BPA Free REACH (224 SVHC) California Prop. 65 EU Regulations EC No 1935/2004 & EU No 10/2011 EBM bottles Straws

High glossiness and low haze

FDA compliant RoHS Directive (EU) 2011/65 TPCH

PHYSICAL PROPERTIES

Property	Typical Value	Test Method
Density	0.90 g/cm ³	ISO 1183
Melt Flow Rate (230°C/2.16kg)	3 g/10min	ISO 1133
Tensile Stress (50mm/min)	20 MPa	ISO 527-2
Elongation at break	>120%	ISO 527-2
Flexural Modulus	720 MPa	ISO 178
Flexural Strength	23 MPa	ISO 178
Ash Content	0.15 %	ISO 3451-1
Melt Point	160 ℃	ISO 11357
Molding Shrinkage	1.6 %	Internal
Charpy Impact Strength, notched (23°C)	12 KJ/m²	ISO 180
Heat Deflection Temperature(0,45MPa)	70 °C	ISO 75-2
Heavy Metals (RoHs)	Cd	N.D.
	Hg	N.D.
	Pb	N.D.
	Cr	N.D.

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

PROCESSING CONDITIONS

PCR PP SMR1202 is easy to process with standard extrusion blowing moulding machines.

Following parameters should be used as guidelines:Melt temperature:180 - 210 °CHolding pressure:200 - 500 barMould pressure:60-100 MPaMould temperature:30 - 50 °CMolding time:20-60 sShrinkage 1 - 2%, depending on wall thickness and moulding parameters

STORAGE

PCR PP SMR1202 should be stored in dry conditions at temperatures below 50°C and protected from UV-light. Improper storage can initiate degradation, which results in odour generation and colour changes and can have negative effects on the physical properties of this product. More information on storage can be found in Material Safety Data Sheet (MSDS) for this product.

RECYCLING

The product is suitable for recycling using modern methods of shredding and cleaning. In-house production waste should be kept clean to facilitate direct recycling.

DISCLAIMER

This information contained herein is based on the data available to us and is believed be correct. However, SmartLoop makes no warranty, expressed or implied, regarding the accuracy these data or the results to be obtained from the use thereof. Each user of the products shall convince himself through all available sources (including finished product testing in its appropriate environment) of the suitability of the products supplied for its particular purpose.

ADDRESS

Shanghai SmartLoop Industrial Co., Ltd Addr.: 19B, No.985 Dongfang Road, Pudong District, Shanghai, China, 200122 Tel: +86 21 6314 9892 Email: info@smartloop.com.cn