



The Polyolefin Company (Singapore) Pte. Ltd.

COSMOPLENE®

POLYPROPYLENE

COSMOPLENE® FC9412G

CHARACTERISTICS

COSMOPLENE FC9412G is Polypropylene Random Copolymer specially designed for PP woven cloth coating with low coating temperature, high bonding strength and small Neck in.

APPLICATIONS

Extrusion coating for PP woven bag, cloth/paper sandwich for Chemical and cement bag.

FC9412G complies with U.S. FDA Regulation 21 CFR 177.1520 (C) 3.1a, as long as it is used unmodified and processed according to standard manufacturing practices in the industries.

Note: Direct food contact is subjected to the extraction provisions of the regulation on the finished food contact article.

PHYSICAL PROPERTIES

ITEM	UNIT	FC9412G	TEST METHOD
Melt Flow Rate	g/10 mins	20	ASTM D1238
Density	g/cm ³	0.90	ASTM D1505
Tensile Strength at break	kg/cm ²	300	ASTM D638
Elongation at break	%	750	ASTM D638
Stiffness	kg/cm ²	7,500	ASTM D747
Melting Point	°C	146	TPC METHOD

The figures presented are typical laboratory averages.



Responsible Care

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Sep 2002



TECHNICAL DATA SHEET

Product Name
SCG PP

Product Grade
P851JO

Product Type
Polypropylene Resin for Injection Application

Product Description

SCG PP P851JO is a random copolymer polypropylene resin which giving high clarity, high brightness, good productivity and contain anti-static agent, suitable for general propose product produced from injection molding process.

Typical Application

- Clear food container
- Clear household product
- Household product
- Articles required high transparency

Product Characteristics

- Good productivity
- High clarity
- High gloss
- High brightness
- Food contact applicable

International Compliance

- U.S. FDA 21 CFR 177.1520
- Regulation(EU) No.10/2011
- Directive 94/62/EC
- Directive 2002/95/EC (RoHS)

Physical Properties

Property	Test Method	Typical Value	Unit
Melt Flow Rate	ASTM D 1238 @ 230 °C, 2.16 kg	20	g/10 min
Density	ASTM D 1505	0.910	g/cm ³
Heat Deflection Temperature (HDT)	ASTM D 648 @ 4.6 kg/cm ²	93	°C
Tensile Strength at Yield	ASTM D 638	320	kg/cm ²
Tensile Strength at Break	ASTM D 638	200	kg/cm ²
Elongation at Yield	ASTM D 638	10	%
Flexural Modulus	ASTM D 790	12,500	kg/cm ²
Notched Izod Impact	ASTM D 256 @ 23 °C	55	J/m
Rockwell Hardness	ASTM D 785	75	R-Scale

Note:

- Conversion factor for changing unit from kg/cm² to MPa is divided by 10.20
- The given values are typical value measured on the product. Values herein are not to be constructed as a product specification.

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Page | 1
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COSMOPLENE® FC9415G

CHARACTERISTICS

COSMOPLENE FC9415G is a Polypropylene Random Copolymer specially designed for PP woven cloth coating with low coating temperature, high bonding strength, small neck-in and higher coating speed.

APPLICATIONS

Extrusion coating for PP woven bag, cloth/paper sandwich for chemical and cement bag.

FC9415G complies with U.S. FDA Regulation 21 CFR 177.1520 (C) 3.1a, as long as it is used unmodified and processed according to standard manufacturing practices in the industries.

Note : Direct food contact is subjected to the extraction provisions of the regulation on the finished food contact article.

PHYSICAL PROPERTIES

ITEM	UNIT	FC9415G	TEST METHOD
Melt Flow Rate	g/10 mins	30	ASTM D1238
Density	g/cm ³	0.90	ASTM D792
Tensile Strength at break	MPa	25	ASTM D638
Elongation at break	%	850	ASTM D638
Stiffness	MPa	730	ASTM D747
Melting Point	°C	136	TPC METHOD

- The figures presented are typical laboratory averages, only for reference.
- The information is based on our current knowledge, is subjected to continuous updates and is intended to suggest/recommend product applications and to provide typical data on the related properties. It should not therefore be construed as guaranteeing any specific property of the product. TPC makes no warranty of any kind, expressed or implied, regarding the accuracy of these data.



Dec 2014

COSMOPLENE®
POLYPROPYLENE

COSMOTHENE®
LOW DENSITY POLYETHYLENE

COSMOTHENE® EVA
ETHYLENE VINYL
ACETATE COPOLYMER

SB-520

PP RANDOM COPOLYMER

General Information

Description

SB-520 is random copolymer polypropylene for extrusion and blow molding application with good transparency and good gloss for transparent bottle. This grade can be processed by extrusion, injection blow molding and sheet extrusion. SB-520 offers high clarity, flexible stiffness, high heat distortion temperature and chemical resistance. This grade is suitable for food contact.

Applications

- ◆Cosmetic and detergent bottle
- ◆Eye drop and food(syrup) bottle

Physical Properties¹

Physical	Test Method	Nominal Value			
Melt Flow Index	ASTM D1238	1.8	g/10min		
Density	ASTM D792	0.90	g/cm ³		
Mechanical					
Tensile Stress (Yield)	ASTM D638	320	kgf/cm ²	31	MPa
Tensile Strain (Break)	ASTM D638	>300	%	>300	%
Flexural Modulus	ASTM D790	13,500	kgf/cm ²	1,320	MPa
Impact					
Notched Izod Impact Strength (23℃)	ASTM D256	5.0	kgf-cm/cm	49	J/m
Thermal					
Heat Deflection Temperature(4.6kgf/cm ²)	ASTM D648	100	℃		
Additional Property					
Haze (2T)	ASTM D1004	20	%		

NOTE

ISO 9001, 14001, /TS 16949

¹ Physical Properties : these are not to be construed as specifications

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