

Provisional Product Data Sheet

SUMITOMO POLYPROPYLENE

FY4012E

Homopolymer, Extrusion Yarn / Raffia

Applications	For woven bags/cloth, woven fiber, carpet backing, binding tape, and monofilament.		
Characteristics	Excellent denier strength, low heat shrinkage and easy processability.		
Typical Processing Conditions	Extrusion Temperature	250°C	
	Stretching Temperature	155°C	
	Stretching Ratio	4 – 6	

Typical Properties

Physical		Value	Unit	Method
Melt Flow Rate	2.16kg	4.0	g/10min	ASTM D1238
Density		0.900	g/cm ³	ASTM D792-A
Mechanical		Value	Unit	Method
Tensile Strength	at Yield	32	MPa	ASTM D638
	at Break	28	MPa	ASTM D638
Tensile Elongation	at Break	580	%	ASTM D638
Flexural Modulus		1340	MPa	ASTM D790A
Flexural Strength		33	MPa	ASTM D790A
Izod Impact, 23°C	Notched	3	kJ/m ²	ASTM D256
	Unnotched	116	kJ/m ²	ASTM D256
Thermal		Value	Unit	Method
Vicat Softening Temperature	50N	90	°C	ASTM D1525B
Melting Temperature		159	°C	DSC
Heat Deflection Temperature	0.45MPa	103	°C	ASTM D648

The values shown are typical values measured on the product and are not to be considered as guaranteed specifications. Actual test results may vary.
Test pieces preparation condition as per ASTM D 4101.

Manufacturer

FY4012E is manufactured in Saudi Arabia by Rabigh Refining & Petrochemical Co. (Petro Rabigh).

Food Contact Application

Unmodified FY4012E complies with the US FDA Regulation 21 CFR 177.1520 as well as with the EU Directive 2002/72/EC and its amendments for use in direct contact with food. Please contact your nearest SCA representative for more information.

Restriction of Hazardous Substances

The substances regulated under EU Directive 2002/95/EC on RoHS in electrical and electronic equipment are not used in the manufacturing process of FY4012E and are therefore not expected to be present.

Storage and Handling

FY4012E is supplied in 25kg bags or in bulk containers depending on packaging options available for different markets. It is advisable to store in a well ventilated storage facility, protected from rain, direct exposure to sunlight, temperature, and dust.

Moisture may accumulate inside the packaging if there is a significant fluctuation in ambient temperature and high relative humidity. If this occurs, customer is strongly advised to dry the resin prior to use. Direct exposure to sunlight and excessive ambient temperature may affect the properties, appearance, and odor characteristic of the resin.

Please refer to the Material Safety Data Sheet (MSDS) for information regarding industrial health and safety issues.

Disposal and the Environment

SCA prioritizes environmental management in all our operations in responsibility and respect towards the community and the world around us.

Unmodified, our polypropylene and polyethylene products are readily recyclable, both for reuse via reprocessing, and for energy reclamation through incineration. If disposed in landfills, our products, which are inert materials, do not pose pollution risks since they do not generate gaseous or liquid emissions.

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Disclaimer

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