

Product Data Sheet

SUMITOMO POLYPROPYLENE

FS3011E

Homopolymer, Biaxially Oriented Film

Applications	For print and lamination, adhesive tape, food packaging, cigarette packaging, etc.		
Characteristics	Medium flow BOPP with excellent clarity, gloss and stiffness. Excellent processability and suitable for metallization.		
Typical Processing Conditions	Extrusion temperature : 190°C - 250°C Stretching temperature : 130°C - 160°C Stretching ratio MD / TD : 4 - 7 / 7 - 10		

Typical Properties

Physical	Value	Unit	Method
Melt Flow Rate	2.16kg	3.0	g/10min
Density	0.900	g/cm ³	ASTM D792-A
Mechanical	Value	Unit	Method
Tensile Strength	at Yield	32	MPa
	at Break	19	MPa
Tensile Elongation	at Yield	9	%
	at Break	165	%
Flexural Modulus	1265	MPa	ASTM D790
Flexural Strength	35	MPa	ASTM D790
Izod Impact, 23°C	Notched	2.8	kJ/m ²
Rockwell Hardness	98		ASTM D785
Thermal	Value	Unit	Method
Vicat Softening Temperature	10N	153	°C
Melting Temperature	158	°C	DSC
Crystallisation Temperature	114	°C	DSC
Film	Value	Unit	Method
Thickness	20	µm	
Tensile Strength at Break	MD / TD	100 / 215	MPa
Tensile Elongation at Break	MD / TD	85 / 15	%
Tensile Modulus, 1% Secant	MD / TD	2100 / 3850	MPa
Haze	0.2	%	ASTM D1003
Gloss	45°	155	ASTM D2457

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 D4101

Film fabrication condition : monolayer film produced on pilot tenter stretching, extrusion temperature 250°C, output 60kg/hr, cast temperature 50°C

Standard stretching condition : MDO stretch ratio 5, temperature 145°C, TDO stretch ratio 8, temperature 157°C, relaxation 6.5%, line speed 25m/min

Manufacturer

FS3011E is manufactured in Saudi Arabia by Rabigh Refining & Petrochemical Co. (Petro Rabigh). Petro Rabigh is an ISO 9001, ISO 14001, and ISO 45001 certified company.

Regulatory Compliances

Unmodified FS3011E complies with the requirements of,

- US FDA Regulation 21 CFR 177.1520 and its amendments
- Regulation (EC) 1935/2004/EC (Framework), EU Commission Regulation 10/2011 (PIM), Commission Regulation (EC) No.2023/2006 (GMP), and their respective amendments

Please contact your nearest SCA representative for more information.

Restriction of Hazardous Substances

The substances regulated under EU Directive 2011/65/EC, and its amendments, on RoHS in electrical and electronic equipment are not used in the manufacturing process, and are therefore not expected to be present in the product.

Storage and Handling

FS3011E is supplied in 25kg bags or in bulk containers. 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 odour characteristic of the resin.

It is recommended to process FS3011E within 6 months upon receipt.

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

Disposal and the Environment

SCA prioritises environmental management in all our operations in responsibility and respect towards the community and the environment.

Unmodified FS3011E is 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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