

Sumitomo PP FS2011E

Polypropylene Homopolymer

Sumitomo Chemical Asia

Message:

Applications For print and lamination, adhesive tape, food packaging, cigarette packaging, etc.
Characteristics High strength BOPP with excellent clarity, gloss and stiffness. Excellent processability and suitable for metallization.

General Information			
Features	Electroplating		
	Rigidity, high		
	Highlight		
	High strength		
	Excellent printability		
	Homopolymer		
	Workability, good		
	Definition, high		
Uses	Bi-axially Oriented Film		
	Packaging		
	Laminate		
	Strap		
	Food packaging		
Agency Ratings	EU 2004/19/EC		
	FDA 21 CFR 177.1520(c) 1.1a		
	European 2002/72/EC		
Forms	Particle		
Processing Method	Film extrusion		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.900	g/cm ³	ASTM D792A
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	2.2	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness	98		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638
Yield	32.0	MPa	ASTM D638
Fracture	> 19.0	MPa	ASTM D638
Tensile Elongation			ASTM D638
Yield	9.0	%	ASTM D638

Fracture	> 160	%	ASTM D638
Flexural Modulus	1280	MPa	ASTM D790A
Flexural Strength	34.0	MPa	ASTM D790A
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	20	μm	
secant modulus			ASTM D882
1% secant, MD	2050	MPa	ASTM D882
1% secant, TD	3700	MPa	ASTM D882
Tensile Strength			ASTM D882
MD: Fracture	110	MPa	ASTM D882
TD: Fracture	215	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Fracture	85	%	ASTM D882
TD: Fracture	17	%	ASTM D882
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	2.9	kJ/m ²	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	153	°C	ASTM D1525 ¹
Melting Temperature	158	°C	DSC
Peak Crystallization Temperature (DSC)	114	°C	DSC
Optical	Nominal Value	Unit	Test Method
Gloss (45°)	155		ASTM D2457
Haze	0.20	%	ASTM D1003
Additional Information	Nominal Value	Unit	
Stretching Ratio - MD/TD	4-7 to 7-10		
Stretching Temperature	130 - 160	°C	
Test pieces preparation condition: nozzle temperature 240 °C, mold temperature 60 °C.Film fabrication condition: 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, thickness 20μm.			
Extrusion	Nominal Value	Unit	
Melt Temperature	190 - 250	°C	
NOTE			
1.	速率 A (50°C/h), 压 力1 (10N)		

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