

Petro Rabigh PP FS2011E

Polypropylene Homopolymer
Rabigh Refining & Petrochemical Co.

Message:

FS2011E is a homopolymer polypropylene intended for the extrusion of biaxially oriented film. It is easy to process and metallization. The film made from this resin exhibit excellent transparency, excellent mechanical and barrier properties.

Applications

- Food packaging
- Printing lamination
- Adhesive tape
- Cigarette packaging
- Metalized film

General Information	
Features	Electroplating
	Fast molding cycle
	Definition, high
	Barrier resin
Uses	Bi-axially Oriented Film
	Packaging
	Films
	Laminate
	Strap
	Food packaging
Appearance	Clear/transparent
Processing Method	Bi-axially Oriented Film
	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 D790
Flexural Strength	34.0	MPa	ASTM D790
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	20	μm	
secant modulus			ASTM D882
1% secant, MD: 20 μm	2050	MPa	ASTM D882
1% secant, TD: 20 μm	3700	MPa	ASTM D882
Tensile Strength			ASTM D882
MD: Break, 20 μm	110	MPa	ASTM D882
TD: Break, 20 μm	215	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Break, 20 μm	85	%	ASTM D882
TD: Break, 20 μm	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
Optical	Nominal Value	Unit	Test Method
Gloss ² (45°, 20.0 μm)	155		ASTM D2457
Haze ³ (20.0 μm)	0.20	%	ASTM D1003
Extrusion	Nominal Value	Unit	
Melt Temperature	190 - 250	°C	
Extrusion instructions			
Stretching Temperature: 130 to 160°CStretching Ratio MD/TD: 4 to 7 / 7 to 10			
NOTE			
1.	压力1 (10N)		
2.	Film		
3.	Film		

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