

# Sumitomo PE FS250B

Linear Low Density Polyethylene

Sumitomo Chemical Asia

## Message:

Applications For cast stretch film, lamination film, wire and cable, and general purpose film applications.  
Characteristics:HighStrength, tough, and easy processability transparent cast film. Also used for wire and cable and high strength blown film, non-- slip with excellent processability. For higher transparency, blending with LDPE is recommended.

General Information			
Features	Low smoothness		
	High strength		
	Workability, good		
	Good toughness		
Uses	Films		
	Laminate		
	Wire and cable applications		
	Mixing		
	Stretch winding		
	cast film		
Agency Ratings	FDA 21 CFR 177.1520		
	European 2002/72/EC		
RoHS Compliance	RoHS compliance		
Forms	Particle		
Processing Method	cast film		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.921	g/cm <sup>3</sup>	ASTM D792A
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	2.2	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Coefficient of Friction (Static)	> 0.51		ASTM D1894
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested			
-- 1	20	µm	
-- 2	30	µm	
Secant Modulus - 1% Secant, MD			ASTM D882
-- 3	205	MPa	ASTM D882
-- 4	150	MPa	ASTM D882
Tensile Strength			ASTM D882

MD: Broken, blown film	35.0	MPa	ASTM D882
MD: Fracture, extruded film	50.0	MPa	ASTM D882
TD: Broken, blown film	30.0	MPa	ASTM D882
TD: Fracture, extruded film	30.0	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Broken, blown film	770	%	ASTM D882
MD: Fracture, extruded film	620	%	ASTM D882
TD: Broken, blown film	930	%	ASTM D882
TD: Fracture, extruded film	940	%	ASTM D882
Dart Drop Impact			ASTM D1709
Blow film	90	g	ASTM D1709
Cast film	75	g	ASTM D1709
Elmendorf Tear Strength			ASTM D1922
MD: Blow film	130	g	ASTM D1922
MD: cast film	60	g	ASTM D1922
TD: Blow film	350	g	ASTM D1922
TD: cast film	240	g	ASTM D1922
Thermal	Nominal Value	Unit	Test Method
Melting Temperature	122	°C	DSC
Optical	Nominal Value	Unit	Test Method
Gloss			ASTM D2457
45, blown film	50		ASTM D2457
45, cast film	145		ASTM D2457
Haze			ASTM D1003
Blow film	20	%	ASTM D1003
Cast film	0.60	%	ASTM D1003
Additional Information			
Cast film fabrication: extruder 55mm, die width 600mm, die gap 1.2mm, extrusion temperature 280°C, chill roll 30°C, output 50kg/hr, line speed 75m/min, thickness 20µm. Blown film processing condition: extruder ø55mm, die ø125mm, die gap 2.0mm, temperature 200°C, output 30kg/hr, blow-up ratio 2.0, thickness 30µm.			
Extrusion	Nominal Value	Unit	
Melt Temperature	200 - 280	°C	
NOTE			
1.	Cast		
2.	Blown		
3.	Blown		
4.	Cast		

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