

Sumitomo PE FS253S

Linear Low Density Polyethylene

Sumitomo Chemical Asia

Message:

Applications For grocery bag, garment packaging, agriculture film, and other general purpose film applications.
Characteristics High strength film with excellent processability, high slip and antiblocking properties. For higher transparency, blending with LDPE is recommended.

General Information			
Additive	High smoothness		
	High caking resistance		
Features	High smoothness		
	High caking resistance		
	High strength		
	Workability, good		
	Definition, high		
Uses	Packaging		
	Films		
	Bags		
	Mixing		
	Agricultural application		
	Laundry bag		
Agency Ratings	EU 2004/19/EC		
	FDA 21 CFR 177.1520(c) 3.2a		
	European 2002/72/EC		
Forms	Particle		
Processing Method	Blow film		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.922	g/cm ³	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			ASTM D1894
With self-dynamics	0.080		ASTM D1894
With Self-Static	0.11		ASTM D1894
Films	Nominal Value	Unit	Test Method
secant modulus			ASTM D882

1% secant, MD	205	MPa	ASTM D882
0.05% to 1.05%, TD	255	MPa	ASTM D882
Tensile Strength			ASTM D882
MD: Fracture	35.0	MPa	ASTM D882
TD: Fracture	30.0	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Fracture	770	%	ASTM D882
TD: Fracture	930	%	ASTM D882
Dart Drop Impact	90	g	ASTM D1709
Elmendorf Tear Strength			ASTM D1922
MD	130	g	ASTM D1922
TD	350	g	ASTM D1922
Blocking Load	14	g	ASTM D3354
Thermal	Nominal Value	Unit	Test Method
Melting Temperature	122	°C	DSC
Optical	Nominal Value	Unit	Test Method
Gloss (45°)	55		ASTM D2457
Haze	15	%	ASTM D1003
Extrusion	Nominal Value	Unit	
Melt Temperature	160 - 200	°C	
Extrusion instructions			

Blow-up Ratio: 2 to 3

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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

