

Sumitomo PE FS153S

Linear Low Density Polyethylene

Sumitomo Chemical Asia

Message:

Applications: For heavy duty liner, carrier bag, garment packaging, mulch 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	Films		
	Mixing		
	Agricultural application		
	Laundry bag		
	Heavy packing bag		
Agency Ratings	EU 2004/19/EC		
	FDA 21 CFR 177.1520(c) 3.2a		
	European 2002/72/EC		
Appearance	Clear/transparent		
Forms	Particle		
Processing Method	Blow film		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.921	g/cm ³	ASTM D792A
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	1.1	g/10 min	ASTM D1238
Films	Nominal Value	Unit	Test Method
secant modulus			ASTM D882
1% secant, MD	205	MPa	ASTM D882
1% secant, TD	250	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	740	%	ASTM D882
TD: Fracture	840	%	ASTM D882
Dart Drop Impact	120	g	ASTM D1709
Elmendorf Tear Strength			ASTM D1922
MD	140	g	ASTM D1922
TD	400	g	ASTM D1922
Blocking Load ¹	11	g	ASTM D3354
Thermal	Nominal Value	Unit	Test Method
Melting Temperature	122	°C	DSC
Optical	Nominal Value	Unit	Test Method
Gloss (45°)	85		ASTM D2457
Haze	10	%	ASTM D1003
Extrusion	Nominal Value	Unit	
Melt Temperature	180 - 220	°C	
Extrusion instructions			
Blow-up Ratio: 2 to 3			
NOTE			
1.	Actual Unit: g/100cm ²		

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