

Petro Rabigh PE FS153S

Linear Low Density Polyethylene

Rabigh Refining & Petrochemical Co.

Message:

FS150A and FS153S are a linear low density polyethylene resin designed for blown film applications. Films made from these resins exhibits excellent transparency, good impact and toughness properties.

Heavy duty liner, garment packaging, mulch film

General Information			
Additive	High Antiblock		
	High Slip		
Features	Good Impact Resistance		
	Good Toughness		
	High Antiblocking		
	High Clarity		
	High Slip		
Uses	Film		
	Liners		
	Packaging		
Appearance	Clear/Transparent		
Processing Method	Film Extrusion		
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
Mechanical	Nominal Value	Unit	Test Method
Coefficient of Friction ¹			ASTM D1894
vs. Itself - Dynamic	0.080		
vs. Itself - Static	0.10		
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	30	µm	
Secant Modulus			ASTM D882
1% Secant, MD : 30 µm	205	MPa	
1% Secant, TD : 30 µm	250	MPa	
Tensile Strength			ASTM D882
MD : Break, 30 µm	35.0	MPa	
TD : Break, 30 µm	30.0	MPa	
Tensile Elongation			ASTM D882

MD : Break, 30 μm	740	%	
TD : Break, 30 μm	840	%	
Dart Drop Impact (30 μm)	120	g	ASTM D1709
Elmendorf Tear Strength			ASTM D1922
MD : 30 μm	140	g	
TD : 30 μm	400	g	
Blocking Load	14	g	DMTA
Thermal	Nominal Value	Unit	Test Method
Melting Temperature	122	°C	DSC
Optical	Nominal Value	Unit	Test Method
Gloss (45°, 30.0 μm)	85		ASTM D2457
Haze (30.0 μm)	10	%	ASTM D1003
Extrusion	Nominal Value	Unit	
Melt Temperature	180 to 200	°C	
NOTE			
1.	exterior		

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