

POLYETHYLENE

FS150A & FS153S

Linear Low Density Polyethylene for film application

Description

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

Applications

FS150A

- General purpose film, lamination film, stretch blown film

FS153S

- Heavy duty liner, clothes packaging, mulch film

Additive Package	Slip Agent	Anti-block
FS150A	no	no
FS153S	High	High

Resin Properties	Unit	Test Method	Typical Value	
MFR (190°C/2.16Kg)	g/10min	ASTM D1238	1.1	
Density	g/cm ³	ASTM D792 Method A	0.921	
Melting Point	°C	DSC	122	
Film Properties*				
Tensile Strength at Break	MD	MPa	ASTM D882	35
	TD			30
Tensile Elongation at Break	MD	%	ASTM D882	740
	TD			840
1% Secant Modulus	MD	MPa	ASTM D882	205
	TD			250
Elmendorf Tear Strength	MD	gf	ASTM D1922	135
	TD			400
Dart Drop Impact	g	ASTM D1709		115
			FS150A	FS153S
Blocking Load	gf/100cm ²	ASTM D3354	--	14
Coefficient of Friction (exterior)	µs	ASTM D1894	--	0.10
	µk		--	0.08
Haze	%	ASTM D1003	7	10
Gloss at 45°	--	ASTM D2457	80	85

* Blown film processing conditions: Extruder Φ55 mm, Die Φ125 mm, Die lip gap 2.0 mm, Temperature 200 °C, Output rate 30 kg/h, BUR 2.0, Film thickness 30 µm.

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Processing conditions: Typical processing conditions: 180 - 220 °C

Storage and handling: FS150A & FS153S should be stored in a dry cool place with adequate ventilation and protected from UV-light at temperature below 50 °C. It is advisable to process polyethylene resins within 6 months after delivery.

Food Contact Compliance and other Regulations: Please visit Petro Rabigh website.