

## Polymer Polyethylene FS250A & FS253S

### Linear Low Density Polyethylene for Film Application

#### Description:

FS250A and FS253S are linear low density polyethylene resin intended for the extrusion of blown film. These resins have relatively high MFR and low density that makes them an easy processing material. Films made from these resins exhibit high transparency, impact and toughness characteristics.

#### Applications:

- FS250A for general purpose film, lamination film and stretch film.
- FS253S for heavy duty liner, garment packaging and mulch film.

Resin Properties	Unit	Test Method	Typical Value	
MFR (190°C / 2.16Kg)	g/10min	ASTM D-1238	2.2	
Density	g/cm <sup>3</sup>	ASTM D-792A	0.921	
Melting Point	°C	DSC	121	
Film Properties				
Tensile Strength at Break	MD	MPa	ASTM D-882	30
	TD			26
Tensile Elongation at Break	MD	%	ASTM D-882	745
	TD			780
1% Secant Modulus	MD	MPa	ASTM D-882	215
	TD			265
Elmendorf Tear Strength	MD	g	ASTM D-1922	145
	TD			280
Dart Drop Impact	g	ASTM D-1709	105	
			Typical Value	
			FS150A	FS153S
Blocking Load	g/10min	ASTM D-3354	40	10
Coefficient of Friction (exterior)	µS	ASTM D-1894	0.8	0.12
	µk		0.9	0.09
Haze	%	ASTM D-1003	25	25
Gloss at 45°C		ASTM D-2457	40	40
Additive Package	Slip Agent		Antiblock	
FS250A	No		No	
FS253S	High		High	

Processing conditions: Recommended melt temperature: 180 - 200°C.

Storage and handling: FS150A and FS153S should be stored in a dry cool place with adequate ventilation and protected from UV light at temperature below 50°C.

Food Contact Compliance: Please refer to Petro Rabigh Technical Marketing Team.

\*Film fabrication condition: Extruder 55mm, Die 125mm 2.0mm, temp 190°C, Output 25 kg/hr, blowup ratio is 2, film thickness is 30 microns.