## POLYETHYLENE

## FS253S

Linear Low Density Polyethylene for film application

## Description

FS253S is a linear low density polyethylene resin designed for blown film applications. This resin has a relatively high MFR that makes it an easy processing material. Films made from this resin exhibits high transparency, good toughness and good extrusion characteristics.

## Applications

- General purpose film
- Clothes packaging
- Agriculture film

Additive Package		Slip Agent		Anti-block	
FS253S		High		High	
Resin Properties		Unit	Test Method		Typical Value
MFR (190°C/2.16Kg)		a/10min	ASTM D1238		2.2
Density		g/cm <sup>3</sup>	ASTM D792 Method A		0.921
Melting Point		°C	DSC		122
Film Properties*					
Tensile Strength at Break	MD	MPa		35	
	TD		A	ASTM D882	30
Tensile Elongation at Break	MD	%	ASTM D882	765	
	TD			925	
1% Secant Modulus	MD	MPa	ASTM D882	205	
	TD			255	
Elmendorf Tear Strength	MD	gf	ASTM D1922		125
	TD				350
Dart Drop Impact		g	AS	STM D1709	90
Blocking Load		gf/100cm <sup>2</sup>	ASTM D3354		14
Coefficient of Friction (exterior)		μs	ASTM D1894		0.11
		μk			0.08
Haze		%	AS	STM D1003	15
Gloss 45-degree			AS	STM D2457	55

\*Film processing conditions: Extruder Φ55 mm, Die Φ125 mm, Die lip gap 2.0 mm, Temperature 170 °C, Output rate 30 kg/h, BUR 2.0, Film thickness 30 μm.

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Processing conditions: Typical processing conditions: 160 - 200 °C

**Storage and handling:** FS253S 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.

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