

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)	g/10min	ASTM D1238	2.2	
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	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	ASTM D1709	90	
Blocking Load	gf/100cm ²	ASTM D3354	14	
Coefficient of Friction (exterior)	μs	ASTM D1894	0.11	
	μk		0.08	
Haze	%	ASTM D1003	15	
Gloss 45-degree		ASTM 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.

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.