

Petro Rabigh PE FS253S

Linear Low Density Polyethylene
Rabigh Refining & Petrochemical Co.

Message:

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

Garment packaging

Agriculture film

General Information	
Features	Good Processability Good Toughness High Clarity
Uses	Agricultural Applications Film Packaging
Appearance	Clear/Transparent
Processing Method	Blown Film 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)	2.2	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Coefficient of Friction			ASTM D1894
vs. Itself - Dynamic	0.080		
vs. Itself - Static	0.11		
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	770	%	

TD : Break, 30 µm	930	%	
Dart Drop Impact (30 µm)	90	g	ASTM D1709
Elmendorf Tear Strength			ASTM D1922
MD : 30 µm	130	g	
TD : 30 µm	350	g	
Blocking Load	14	g	ASTM D3354
Thermal	Nominal Value	Unit	Test Method
Melting Temperature	122	°C	DSC
Optical	Nominal Value	Unit	Test Method
Gloss (45°, 30.0 µm)	55		ASTM D2457
Haze (30.0 µm)	15	%	ASTM D1003
Extrusion	Nominal Value	Unit	
Melt Temperature	160 to 200	°C	

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