

# Linear Low Density Polyethylene

## Aramco LLDPE F2122BS

### Product Description

Aramco LLDPE F2122BS is a linear low density polyethylene resin and is typically used for blown film applications. This resin has a relatively high melt index that makes it easier to process. Films made from this resin typically exhibits high transparency, good toughness and good extrusion characteristics.

This product contains high level of both slip and anti-blocking agents.

### Typical Applications

General purpose film, garment packaging, agriculture film.

This product is not intended for use in medical and pharmaceutical applications.

Physical Properties	Unit	Test Method	Value <sup>(1)</sup>	
Melt Flow Index (190°C/2.16kg)	g/10min	ASTM D1238	2.2	
Density	g/cm <sup>3</sup>	ASTM D792 Method A	0.921	
Melting Point	°C	DSC	122	
Film Properties <sup>(2)</sup>				
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	mN	ASTM D1922	1245
	TD			3450
Dart Drop Impact	g	ASTM D1709		90
Haze	%	ADTM D1003		15
Gloss (45°)		ASTM D2457		55
Blocking Load	g/100cm <sup>2</sup>	ASTM D3354		14
Coefficient of Friction	Static	ASTM D1894		0.11
	Dynamic			0.08

(1) Typical values only, not to be construed as specification limits

(2) Blow film fabrication conditions: Extruder 55mmφ, Die 125mmφ, Die Gap 2 mm, Temperature 190°C, Output 25kg/h, Blow-up ratio 2.0, Thickness 30μm

**Processing conditions:** Recommended melt temperature: 160 – 200 °C

**Storage and handling:** Aramco LLDPE F2122BS should be stored in a dry cool place with adequate ventilation and protected from UV-light at temperature below 50 °C

**Food Contact and other Regulations:** Aramco LLDPE F2122BS resin is suitable for food contact applications. Detailed information is provided in Material Safety Datasheet and for additional specific information, please contact Saudi Aramco Products Trading Company for certificates.

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