

# Linear Low Density Polyethylene

## Aramco LLDPE F2111BS

### Product Description

Aramco LLDPE F2111BS is a linear low density polyethylene resin and is typically used for blown film applications. Films made from this resin typically exhibits good optical properties, impact strength and tensile properties.

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

### Typical Applications

Heavy duty liner, carrier bag, garment packaging, mulch film, garbage bag.

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	1.1
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	740
	TD			840
1% Secant Modulus	MD	MPa	ASTM D882	205
	TD			250
Elmendorf Tear Strength	MD	mN	ASTM D1922	1345
	TD			3940
Dart Drop Impact		g	ASTM D1709	115
Haze		%	ASTM D1003	10
Gloss (45°)			ASTM D2457	85
Blocking Load		g/100cm <sup>2</sup>	ASTM D3354	14
Coefficient of Friction	Static		ASTM D1894	0.10
	Dynamic			0.08

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

(2) Blown film fabrication conditions: Extruder 55mmφ, Die 125mmφ, Die Gap 2 mm, Temperature 200°C, Output 30kg/h, Blow-up ratio 2.0, Thickness 30μm

**Processing conditions:** Recommended melt temperature: 180 – 200 °C

**Storage and handling:** Aramco LLDPE F2111BS 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 F2111BS 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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