

# Linear Low Density Polyethylene

## Aramco LLDPE F2231

### Product Description

Aramco LLDPE F2231 is a linear low density polyethylene resin and is typically used for cast film applications. Films made from this resin typically exhibits excellent optical properties and good tensile properties. This product is also typically suitable as base resin in cable compounding.

This product does not contain slip and anti-blocking agents.

### Typical Applications

Hand and pallet stretch wrap, base resin for compounding of cable jacketing and low voltage cable insulation.

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	3.1	
Density	g/cm <sup>3</sup>	ASTM D792 Method A	0.922	
Melting Point	°C	DSC	121	
Film Properties <sup>(2)</sup>				
Tensile Strength at Break	MD	MPa	ASTM D882	40
	TD			25
Tensile Elongation at Break	MD	%	ASTM D882	680
	TD			870
1% Secant Modulus	MD	MPa	ASTM D882	165
	TD			165
Elmendorf Tear Strength	MD	mN	ASTM D1922	705
	TD			2130
Dart Drop Impact	g	ASTM D1709		75
Haze	%	ADTM D1003		0.6
Gloss (45°)		ASTM D2457		145

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

(2) Cast film fabrication conditions: Extruder 55mmφ, Die width 600mm, Die Gap 1.2mm, Temperature 280°C, Chill Roll Temperature 30°C, Output 50kg/h, Line speed 75m/min, Thickness 20μm

**Processing conditions:** Recommended melt temperature: 220 – 280 °C (for cast film)

**Storage and handling:** Aramco LLDPE F2231 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 F2231 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.

### Saudi Aramco: Company General Use

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