

Linear Low Density Polyethylene

Aramco LLDPE F2122

Product Description

Aramco LLDPE F2122 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 ⁽¹⁾	
Melt Flow Index (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 ⁽²⁾				
Tensile Strength at Break	MD	MPa	ASTM D882	50
	TD			30
Tensile Elongation at Break	MD	%	ASTM D882	620
	TD			940
1% Secant Modulus	MD	MPa	ASTM D882	150
	TD			150
Elmendorf Tear Strength	MD	mN	ASTM D1922	610
	TD			2315
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 F2111 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 F2111 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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