

RECLAIR® F 19010

Linear Low Density Polyethylene

Reliance Industries Limited

Message:

Reclair F 19010, is a Butene comonomer based linear low density polyethylene with optimum levels of antioxidant, antiblocking agent, slip, and polymer processing aid. The grade is designed to make blown film for heavy duty applications and liquid packaging, where excellent seal through contamination, toughness, impact strength and tear resistance are desired.

General Information			
Additive	Anti-caking agent		
	Antioxidation		
	slip agent		
Features	smoothness		
	Anti-caking property		
	Antioxidation		
	Impact resistance, good		
	Good tear strength		
	Good toughness		
Uses	Packaging		
	Films		
Agency Ratings	FDA 21 CFR 177.1520		
Forms	Particle		
Processing Method	Blow film		
Physical	Nominal Value	Unit	Test Method
Density	0.918	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.90	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Coefficient of Friction			ASTM D1894
With self-dynamics	0.16		ASTM D1894
With Self-Static	0.23		ASTM D1894
Films	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D882
MD: Yield, 40 µm	12.5	MPa	ASTM D882
TD: Yield, 40 µm	12.0	MPa	ASTM D882
MD: Break, 40 µm	38.0	MPa	ASTM D882
TD: Break, 40 µm	30.0	MPa	ASTM D882
Tensile Elongation			ASTM D882

MD: Break, 40 μm	650	%	ASTM D882
TD: Break, 40 μm	800	%	ASTM D882
Dart Drop Impact (40 μm)	140	g	ASTM D1709
Elmendorf Tear Strength			ASTM D1922
MD : 40 μm	130	g	ASTM D1922
TD : 40 μm	410	g	ASTM D1922
Optical	Nominal Value		Test Method
Gardner Gloss (60°)	80		ASTM D523
Additional Information			

Film properties taken from 40μm blown film made with 2.5 mm die gap and a BUR of 2.25.

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