

RELENE® HP19010

Linear Low Density Polyethylene
Reliance Industries Limited

Message:

HP19010 is a Linear Low Density Polyethylene (LLDPE), with optimum levels of antioxidants, and anti blocking agents and slip additives. The grade is designed to make blown film for heavy duty applications and liquid packaging, where good toughness, impact 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		
	Compliance of Food Exposure		
Uses	Blown Film		
	Packaging		
	Films		
Agency Ratings	FDA 21 CFR 177.1520		
	IS 10141-1982		
	IS 10146-1982		
Processing Method	Film extrusion		
	Blow film		
Physical	Nominal Value	Unit	Test Method
Density	0.922	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	1.1	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Coefficient of Friction			ASTM D1894
Dynamic, blown film	0.16		ASTM D1894
Static, blown film	0.23		ASTM D1894
Films	Nominal Value	Unit	Test Method
Elastic Modulus - MD (40 µm, Blown Film)	310	MPa	ASTM D882

Elastic Modulus - TD (40 µm, Blown Film)	350	MPa	ASTM D882
Tensile Strength			ASTM D882
MD: Yield, 40 µm, blown film	12.0	MPa	ASTM D882
TD: Yield, 40 µm, blown film	11.5	MPa	ASTM D882
MD: Broken, 40 µm, blown film	38.0	MPa	ASTM D882
TD: Broken, 40 µm, blown film	30.0	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Broken, 40 µm, blown film	700	%	ASTM D882
TD: Broken, 40 µm, blown film	850	%	ASTM D882
Dart Drop Impact (40 µm, Blown Film)	150	g	ASTM D1709A
Optical	Nominal Value	Unit	Test Method
Gardner Gloss (60°, 40.0 µm, Blown Film)	80		ASTM D523
Haze (40.0 µm, Blown Film)	25	%	ASTM D1003

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