

RELENE® O19010

Linear Low Density Polyethylene

Reliance Industries Limited

Message:

O19010 is an octene comonomer based Linear Low Density Polyethylene (LLDPE), with optimum levels of antioxidant, antiblocking agent, slip additive and polymer processing aid. The grade is designed to make blown film for ehavy duty applications and liquid packaging, where excellent seal through contamination, toughness, impact strength and tear resistance are desired.

General Information			
Additive	Antiblock		
	Antioxidant		
	Processing Aid		
	Slip		
Features	Antiblocking		
	Antioxidant		
	Food Contact Acceptable		
	Good Impact Resistance		
	Good Tear Strength		
	Good Toughness		
	Octene Comonomer		
	Slip		
Uses	Film		
	Packaging		
Agency Ratings	FDA 21 CFR 177.1520		
	IS 10141-1982		
	IS 10146-1982		
Processing Method	Blown 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
vs. Itself - Dynamic, Blown Film	0.12		
vs. Itself - Static, Blown Film	0.20		
Films	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D882

MD : Yield,40 µm, Blown Film	12.5	MPa	
TD : Yield,40 µm, Blown Film	13.0	MPa	
MD : Break, 40 µm,Blown Film	40.0	MPa	
TD : Break, 40 µm,Blown Film	35.0	MPa	
Tensile Elongation			ASTM D882
MD : Break, 40 µm,Blown Film	650	%	
TD : Break, 40 µm,Blown Film	800	%	
Dart Drop Impact (40 µm, Blown Film)	280	g	ASTM D1709A
Elmendorf Tear Strength			ASTM D1922
MD : 40 µm, Blown Film	550	g	
TD : 40 µm, Blown Film	1100	g	
Optical	Nominal Value	Test Method	
Gardner Gloss (60°, 40.0 µm, Blown Film)	80	ASTM D523	

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