

RELENE® O21010

Linear Low Density Polyethylene

Reliance Industries Limited

Message:

O21010 is an octene comonomer based Linear Low Density Polyethylene (LLDPE), with optimum levels of antioxidant and polymer processing aid but without slip additive and antiblocking agent. The grade is designed for lamination film applications where good optical properties and adhesion to the substrate are required.

General Information			
Additive	Antioxidant		
	Processing Aid		
Features	Antioxidant		
	Food Contact Acceptable		
	Good Adhesion		
	Octene Comonomer		
	Opticals		
Uses	Film		
	Laminates		
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	0.50		
vs. Itself - Static, Blown Film	0.58		
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	45.0	MPa	
TD : Break, 40 µm,Blown Film	40.0	MPa	
Tensile Elongation			ASTM D882

MD : Break, 40 μm,Blown Film	750	%	
TD : Break, 40 μm,Blown Film	950	%	
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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