

RELENE® F19010

Linear Low Density Polyethylene

Reliance Industries Limited

Message:

F18020 is a butene comonomer based Linear Low Density Polyethylene (LLDPE), with optimum levels of antioxidants and polymer processing aid, but without antiblock and without slip additives. The grade is designed for manufacturing cast films, air bubble films and films for lamination applications.

General Information			
Additive	Antiblock		
	Antioxidant		
	Processing Aid		
	Slip		
Features	Antiblocking		
	Antioxidant		
	Butene Comonomer		
	Food Contact Acceptable		
	Good Impact Resistance		
	Good Tear Strength		
	Good Toughness		
	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	0.16		
vs. Itself - Static, Blown Film	0.23		
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	12.0	MPa	
MD : Break, 40 μm,Blown Film	38.0	MPa	
TD : Break, 40 μm,Blown Film	30.0	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)	140	g	ASTM D1709A
Elmendorf Tear Strength			ASTM D1922
MD : 40 μm, Blown Film	130	g	
TD : 40 μm, Blown Film	410	g	
Optical	Nominal Value		Test Method
Gardner Gloss (60°, 40.0 μm, Blown Film)	80		ASTM D523

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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

