

# RELENE® F18020

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	Antioxidant		
	Processing Aid		
Features	Antioxidant		
	Butene Comonomer		
	Food Contact Acceptable		
Uses	Cast Film		
	Laminates		
	Stretch Wrap		
Agency Ratings	FDA 21 CFR 177.1520		
	IS 10141-1982		
	IS 10146-1982		
Processing Method	Cast Film		
Physical	Nominal Value	Unit	Test Method
Density	0.917	g/cm <sup>3</sup>	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	2.0	g/10 min	ASTM D1238
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	30.0	MPa	
TD : Break, 40 µm,Blown Film	25.0	MPa	
Tensile Elongation			ASTM D882
MD : Break, 40 µm,Blown Film	700	%	
TD : Break, 40 µm,Blown Film	800	%	
Dart Drop Impact (40 µm, Blown Film)	120	g	ASTM D1709A
Elmendorf Tear Strength			ASTM D1922
MD : 40 µm, Blown Film	80	g	
TD : 40 µm, Blown Film	290	g	

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