

# RELENE® F46003

High Density Polyethylene

Reliance Industries Limited

## Message:

F46003 is a High Density Polyethylene grade suitable for general purpose blown film & extrusion blow moulding applications. Articles blown from this grade exhibit moderate to good stiffness. The resin offers good melt strength, ESCR and impact resistance.

General Information			
Features	Food Contact Acceptable		
	Good Impact Resistance		
	Good Melt Strength		
	Good Stiffness		
	High ESCR (Stress Crack Resist.)		
Uses	Blow Molding Applications		
	Film		
Agency Ratings	FDA 21 CFR 177.1520		
	IS 10141-1982		
	IS 10146-1982		
Processing Method	Blown Film		
	Extrusion Blow Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.946	g/cm <sup>3</sup>	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.30	g/10 min	ASTM D1238
Films	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D882
MD : Yield,40 µm, Blown Film	29.0	MPa	
TD : Yield,40 µm, Blown Film	26.0	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	780	%	
TD : Break, 40 µm,Blown Film	950	%	
Dart Drop Impact (40 µm, Blown Film)	80	g	ASTM D1709A
Elmendorf Tear Strength			ASTM D1922
MD : 40 µm, Blown Film	16	g	
TD : 40 µm, Blown Film	180	g	

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