

RELENE® 52GF004

High Density (HMW) Polyethylene

Reliance Industries Limited

Message:

52GF004 is a blown film grade of High Molecular Weight High Density Polyethylene (HMHDPE). It possesses broad molecular weight distribution, which improves processability. 52GF004 can readily be processed on HMHDPE blown film extrusion lines. The films will have homogeneous, finely textured, opaque appearance and exhibit balanced mechanical properties and very good gloss.

General Information			
Features	Food Contact Acceptable		
	Good Processability		
	High Gloss		
	High Molecular Weight		
	Med.-Wide Molecular Weight Distrib.		
Uses	Film		
	Liners		
Agency Ratings	FDA 21 CFR 177.1520		
	IS 10141-1982		
	IS 10146-1982		
Processing Method	Blown Film		
Physical	Nominal Value	Unit	Test Method
Density	0.952	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/5.0 kg)	0.45	g/10 min	ASTM D1238
Films	Nominal Value	Unit	Test Method
Tensile Strength ¹			ASTM D882
MD : Yield, 20 µm	30.0	MPa	
TD : Yield, 20 µm	32.0	MPa	
MD : Break, 20 µm	50.0	MPa	
TD : Break, 20 µm	48.0	MPa	
Tensile Elongation ²			ASTM D882
MD : Break, 20 µm	> 600	%	
TD : Break, 20 µm	> 600	%	
Dart Drop Impact ³	6.0	g	ASTM D1709
Elmendorf Tear Strength ⁴			ASTM D1922
MD : 20 µm	0.60	g	
TD : 20 µm	9.2	g	
NOTE			

1.	20 μm film made with 0.75mm die gap & 4 BUR
2.	20 μm film made with 0.75mm die gap & 4 BUR
3.	F50, 38mm dart, 66cm height
4.	20 μm film made with 0.75mm die gap & 4 BUR

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Recommended distributors for this material

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