

RELENE® 50GF003

High Density (HMW) Polyethylene

Reliance Industries Limited

Message:

50GF003 is a blown film grade of High Molecular Weight High Density Polyethylene (HMHDPE). It possesses bimodal molecular weight distribution, which improves processability. 50GF003 can readily be processed on HMHDPE blown film extrusion lines. The films will have homogeneous, finely textured, opaque appearance and exhibit very good mechanical properties.

General Information			
Features	Bimodal Molecular Weight Distribution		
	Food Contact Acceptable		
	Good Processability		
	High Gloss		
	High Molecular Weight		
Uses	Bags		
	Film		
Agency Ratings	FDA 21 CFR 177.1520		
	IS 10141-1982		
	IS 10146-1982		
Processing Method	Blown Film		
Physical	Nominal Value	Unit	Test Method
Density	0.950	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/5.0 kg)	0.30	g/10 min	ASTM D1238
Films	Nominal Value	Unit	Test Method
Tensile Strength ¹			ASTM D882
MD : Yield, 20 µm	31.0	MPa	
TD : Yield, 20 µm	32.0	MPa	
MD : Break, 20 µm	54.0	MPa	
TD : Break, 20 µm	51.0	MPa	
Tensile Elongation ²			ASTM D882
MD : Break, 20 µm	> 600	%	
TD : Break, 20 µm	> 600	%	
Dart Drop Impact ³	8.0	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

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

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

