Braskem PE SGM9450F

High Density Polyethylene

Braskem

Message:

SGM9450F is a high-density polyethylene, developed for the high molecular weight film extrusion segment produced with bimodal technology. The film produced from this resin has high tenacity and excellent resistance to impact characteristics. This resin has wide molar mass distribution that makes it easier to process.
The minimum biobased content of this grade is 96%, determined according to ASTM D6866.
Application:
Bags in general (like T-shirt bags, Handle Bags, Star Bags, others); Geomembranes.

General Information	
Features	BPA Free
	Food Contact Acceptable
	High Impact Resistance
	High Molecular Weight
	Med.-Wide Molecular Weight Distrib.
	Renewable Resource Content
Uses	Bags
	Film
	Geo Membranes
	Packaging
Agency Ratings	ASTM D 6866
	FDA 21 CFR 177.1520
Forms	Pellets
Processing Method	Blown Film
	Film Extrusion

Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.952	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR)			ASTM D1238
190°C/21.6 kg	9.3	g/10 min	
190°C/5.0 kg	0.33	g/10 min	
Films	**Nominal Value**	**Unit**	**Test Method**
Film Thickness - Tested	13	µm	
Tensile Strength			ASTM D882
MD : Yield,13 µm, Blown Film	40.0	MPa	
TD : Yield,13 µm, Blown Film	30.0	MPa	
MD : Break, 13 µm,Blown Film	85.0	MPa	

TD : Break, 13 µm,Blown Film	45.0	MPa	
Tensile Elongation			ASTM D882
MD : Break, 13 µm,Blown Film	590	%	
TD : Break, 13 µm,Blown Film	740	%	
Dart Drop Impact [1] (13 µm, Blown Film)	250	g	ASTM D1709
Elmendorf Tear Strength			ASTM D1922
MD : 13 µm, Blown Film	58	g	
TD : 13 µm, Blown Film	51	g	
Seal Initiation Temperature (13 µm, Blown Film)	125	°C	Internal Method

Additional Information	Nominal Value	Unit	Test Method
Biobased Content	> 96	%	ASTM D6866
Puncture Resistance - Blown Film (12.5 µm)	80.0	J/m	Internal Method

NOTE			
1.	F50		

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