Braskem PE SGM9450F

High Density Polyethylene

Braskem

Message:

Description:

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	High molecular weight				
	High density				
	Updatable resources				
	Wide molecular weight distribution				
	Compliance of Food Exposure				
Uses	Bags				
Agency Ratings	FDA 21 CFR 177.1520				
Processing Method	Blow film				
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	ASTM D1238		
190°C/5.0 kg	0.33	g/10 min	ASTM D1238		
Films	Nominal Value	Unit	Test Method		
Tensile Strength			ASTM D882		
MD: Yield, 13 μm	40.0	MPa	ASTM D882		
TD: Yield, 13 μm	30.0	MPa	ASTM D882		
MD: Broken, 13 μm	85.0	MPa	ASTM D882		
TD: Broken, 13 μm	45.0	МРа	ASTM D882		
Tensile Elongation			ASTM D882		
MD: Broken, 13 μm	590	%	ASTM D882		
TD: Broken, 13 μm	740	%	ASTM D882		
Dart Drop Impact ¹	250	g	ASTM D1709		
Elmendorf Tear Strength			ASTM D1922		
MD : 13 μm	58	g	ASTM D1922		
TD : 13 μm	51	g	ASTM D1922		
Additional Information	Nominal Value	Unit	Test Method		

Puncture Resistance (12.5 µm)	80.0	J/m	Internal method
Sealing Initial Temperature	125	°C	Internal method
Biobased Content	> 96	%	ASTM D6866
NOTE			
1	F50		

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