Braskem I'm green BIO-BASED

Data Sheet
17/01/2019

High Density Polyethylene SGM9450F

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 carbon content of this grade is 96%, determined according to ASTM D6866.

Aplicações:

Film rolls, Geodesic film

Processos:

Blown Film Extrusion

Control Properties:

Característica	Método	Unidades	Valores
Melt Flow Rate (190°C/5kg)	ASTM D 1238	g/10 min	0.33
Melt Flow Rate (190°C/21.6kg)	D 1238	g/10 min	9.3
Density	D 792	g/cm³	0.952

Typical Properties - Films:

Blown Film Properties[a]

Característica	Método	Unidades	Valores
Tensile Strength at Break (MD/TD)	D 882	MPa	85/45
Elongation at Break (MD/TD)	D 882	%	590/740
Tensile Strength at Yield (MD/TD)	D 882	MPa	40/30
Elongation at Yield (MD/TD)	D 882	%	15/5
Dart Drop Impact	D 1709	g/F50	200
Elmendorf Tear Strength (MD/TD)	D 1922	gF	5/50
Secant Modulus 1%	D 882	MPa	750/870
Sealing Initial Temperature	Braskem	°C	125

(a) Film with 12,5 microns produce in a 75mm extruder with 1,3 mm of die gap and a blow-up ratio of 4.5:1. (MD = extrusion direction and TD = transversal direction).

Final Remarks

1. It is the sole responsibility of the Client/Purchaser of this Product to verify the suitability of this Product and its use for the intended use and to ensure compliance with legal and regulatory requirements applicable to the final product.
2. The technical guidance eventually rendered to the Client/Purchaser of the Product by Braskem about the Product does not characterize a performance guarantee for the intended application, nor does it exempt the Client/Purchaser from the responsibilities described in item 1 above.
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