

## Braskem ES 300 HDPE Blown Film Extrusion Polyethylene (discontinued \*\*)

Category : Polymer , Film , Thermoplastic , Polyethylene (PE) , HDPE , High Density Polyethylene (HDPE), Film Grade

### Material Notes:

38µm film gauge, obtained in 75mm extruder, die gap 1.0mm, output 1.75 kg/h-cm with 2:1 BUR. Applications: Grocery and T-shirt bags; merchandise bags; frozen-food bags; high-strength films. Information provided by Braskem

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Braskem-ES-300-HDPE-Blown-Film-Extrusion-Polyethylene-nbspdiscontinued-.php](http://www.lookpolymers.com/polymer_Braskem-ES-300-HDPE-Blown-Film-Extrusion-Polyethylene-nbspdiscontinued-.php)

Physical Properties	Metric	English	Comments
Density	0.953 g/cc	0.0344 lb/in <sup>3</sup>	ASTM D1505
Thickness	38.0 microns	1.50 mil	
Melt Flow	0.35 g/10 min @Load 5.00 kg, Temperature 190 °C	0.35 g/10 min @Load 11.0 lb, Temperature 374 °F	ASTM D1238
High Load Melt Index	9.0 g/10 min @Load 21.6 kg, Temperature 190 °C	9.0 g/10 min @Load 47.6 lb, Temperature 374 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Yield, MD	26.0 MPa	3770 psi	ASTM D882
Film Tensile Strength at Yield, TD	31.0 MPa	4500 psi	ASTM D882
Film Elongation at Break, MD	684 %	684 %	ASTM D882
Film Elongation at Break, TD	977 %	977 %	ASTM D882
Elmendorf Tear Strength, MD	0.800 g/micron	20.3 g/mil	ASTM D1922
Elmendorf Tear Strength, TD	8.30 g/micron	211 g/mil	ASTM D1922
Dart Drop	5.28 g/micron	134 g/mil	ASTM D1709
Film Tensile Strength at Break, MD	78.0 MPa	11300 psi	ASTM D882
Film Tensile Strength at Break, TD	61.0 MPa	8850 psi	ASTM D882
Heat Seal Strength Initiation Temperature	125 °C	257 °F	Sealing Initial Temperature; Braskem® Method

Descriptive Properties	Value	Comments
Minimum Recommended Thickness	10 µm	
Molecular Weight Distribution		

Descriptive Properties	Bimodal Value	Comments
Puncture Strength	57 J/m	Braskem® Method

## Contact Songhan Plastic Technology Co.,Ltd.

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