

Braskem EB 853 LDPE Cast Film Extrusion Polyethylene

Category : Polymer , Film , Thermoplastic , Polyethylene (PE) , LDPE , Low Density Polyethylene (LDPE), 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: Films for absorbents and diapers (with HDPE and LLDPE); general purpose. Information provided by Braskem

Order this product through the following link:

http://www.lookpolymers.com/polymer_Braskem-EB-853-LDPE-Cast-Film-Extrusion-Polyethylene.php

Physical Properties	Metric	English	Comments
Density	0.923 g/cc	0.0333 lb/in ³	ASTM D1505
Thickness	38.0 microns	1.50 mil	
Melt Flow	2.7 g/10 min @Load 2.16 kg, Temperature 230 °C	2.7 g/10 min @Load 4.76 lb, Temperature 446 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	10.0 MPa	1450 psi	ASTM D638
Film Elongation at Break, MD	407 %	407 %	ASTM D882
Film Elongation at Break, TD	1254 %	1254 %	ASTM D882
Elongation at Break	626 %	626 %	ASTM D638
Coefficient of Friction	0.53	0.53	ASTM D1894
Elmendorf Tear Strength, TD	3.30 g/micron	83.8 g/mil	ASTM D1922
Dart Drop	2.60 g/micron	66.0 g/mil	ASTM D1709
Film Tensile Strength at Break, MD	27.0 MPa	3920 psi	ASTM D882
Film Tensile Strength at Break, TD	20.0 MPa	2900 psi	ASTM D882
Heat Seal Strength Initiation Temperature	105 °C	221 °F	Sealing Initial Temperature; Braskem® Method

Thermal Properties	Metric	English	Comments
Vicat Softening Point	89.0 °C	192 °F	ASTM D1525

Optical Properties	Metric	English	Comments
Haze	4.9 %	4.9 %	ASTM D1003

Gloss	11.3%	11.3%	60° angle: ASTM D2457
Optical Properties	Metric	English	Comments
Descriptive Properties		Value	Comments
Minimum Recommended Thickness		25 μm	

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