Braskem

Data Sheet

Low Density Polyethylene F 7018

Description:

F7018 is a low density polyethylene that shows an excellent seal ability at low temperatures and indicated for low viscosity required applications. It does not contain additives.

Application: Masterbatches; Extrusion coating; Injected parts.

Control Properties:

	ASTM Methods	Units	Values
Melt Flow Rate (190/2.16)	D 1238	g/10 min	7.0
Density	D 792	g/cm3	0.918

Typical Properties:

	ASTM Method	Units	Values
Blown Film Properties[a]			
Tensile Strength at Break (MD/TD)	D 882	MPa	25/20
Elongation at Break (MD/TD)	D 882	%	390/900
Flexural Modulus – 1% Secant	D 2457	MPa	80
Dart Drop Impact	D 1709	g/F50	90
Elmendorf Tear Strength (MD/TD)	D 1922	gF	NDc/55
Haze	D 1003	%	12
Gloss - Angle 60°	D 2457	%	78
Plaque Properties[b]			
Tensile Strength at Break	D 638	MPa	9
Tensile Strength at Yield	D 638	MPa	10
Flexural Modulus – 1% Secant	D 790	MPa	240
Shore D Hardness	D 2240	-	43
Vicat Softening Temperature at 10 N	D 1525	ºC	86

(a) 25 µm Film Gauge, obtained in 75 mm extruder, die gap 1.0 mm, output 1.75 kg/h*cm with 2:1 BUR. (MD: Machine direction; TD: Transversal direction).
(b) Test specimens prepared from compression molded sheet made according to ASTM D 4703. (c) ND: Not Determined

Recommended Processing Conditions:

Recommended processing conditions for:

1) Extrusion Coating:

- Temperature profile: 180 to 310ºC.

2) Injection Molding

- Temperature profile: 130 to 180ºC.

The optimum processing conditions will vary according to the type of equipment used and cannot be considered performance guarantee.