

Low Density Polyethylene BC818

Description:

BC818 is a low density polyethylene indicated for several applications. In the coating process it presents very good optical properties, low neck-in, good film stability, and good adhesion on porous substrate. In the injection molding process it gives excellent flexibility.

Applications:

Masterbatches, Caps, Bunges, Extrusion coating, Flexible injection molded articles

Processes:

Injection Molding, Extrusion

Control Properties:

Feature	Method	Units	Values
Melt Flow Rate (190°C/2.16kg)	D 1238	g/10 min	8.3
Density	D 792	g/cm ³	0.918

Typical Properties - Plaque¹:

Plaque Properties

Feature	Method	Units	Values
Tensile Strength at Yield (a)	D 638	MPa	9
Tensile Strength at Break (a)	D 638	MPa	12
Flexural Modulus - 1% Secant (b)	D 790	MPa	200
Shore D Hardness (c)	D 2240	-	49
Izod Impact Strength (b)	D 256	J/m	NB*
Deflection Temperature under Load at 0.455 MPa (b)	D 648	°C	86
Vicat Softening Temperature at 10 N (b)	D 1525	°C	41

¹ Test specimens from compression molded plaque according to ASTM D4703. Plaque Thickness: a) 2mm. b) 3mm c) 6mm. NB = No break.

Typical Properties - Films:

Blow film Properties (a)

Feature	Method	Units	Values
Tensile Strength at Break (MD/TD)	D 882	MPa	25/20
Elongation at Break (MD/TD)	D 882	%	380/870
Flexural Modulus - 1% Secant (MD/TD)	D 882	MPa	70
Dart Drop Impact	D 1709	g/F50	70
Elmendorf Tear Strength (MD/TD)	D 1922	gF	ND(b)/56
Haze	D 1003	%	8
Gloss - Angle 60°	D 2457	%	76

(a) LDPE: 25 µm thick film, obtained from a 75 mm extruder, with blow up ratio of 2:1, die gap 1 mm and Die rate 1,75 kg/h.cm (MD = Machine Direction and TD = Transversal Direction). (b) ND: Not Determined. (c) 25 µm thick film, temperature: 38° C, 100% RH.

Final Remarks:

- The information presented in this Data Sheet reflects typical values obtained in our laboratories, but should not be considered as absolute or as warranted values. Only the properties and values mentioned on the Certificate of Quality are considered as guarantee of the product.
- For regulatory information of the product, please refer to Regulatory Document or contact our Technical Assistance Area.
- For information about safety, handling, individual protection, first aids and waste disposal, please refer to MSDS.
- The mentioned values in this report can be changed at any moment without Braskem previous communication.