

## High Density Polyethylene BF4810

### Description:

BF4810 is a high density high molecular weight polyethylene copolymer resin that shows an excellent dart impact and puncture resistance, high tensile strength, good sealability and an outstanding processing performance.

### Applications:

Film, Repackaging, Perforated Bags , Bags

### Processes:

Blown Film Extrusion

### Control Properties:

Feature	Method	Units	Values
Melt Flow Rate (190°C/5kg)	D 1238	g/10 min	0.45
Melt Flow Rate (190°C/21.6kg)	D 1238	g/10 min	10
Density	D 792	g/cm <sup>3</sup>	0.948

### Typical Properties - Films:

Blown Film Properties<sup>a</sup>

Feature	Method	Units	Values
Tensile Strength at Break (MD/TD)	D 882	MPa	50/40
Elongation at Break (MD/TD)	D 882	%	510/860
Tensile Strength at Yield (MD/TD)	D 882	MPa	25/25
Elongation at Yield (MD/TD)	D 882	%	5/5
Dart Drop Impact	D 1709	g/F50	135
Elmendorf Tear Strength (MD/TD)	D 1922	gF	50/70
Secant Modulus 1%	D 882	MPa	655/790
Sealing Initial Temperature	Braskem	°C	123

(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. 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.
2. For regulatory information of the product, please refer to Regulatory Document or contact our Technical Assistance Area.
3. For information about safety, handling, individual protection, first aids and waste disposal, please refer to MSDS.
4. The mentioned values in this report can be changed at any moment without Braskem previous communication.