

## Low Density Polyethylene EF2222

### Description:

EF2222 is a low-density polyethylene (LDPE), with excellent processability and low gel content. Those features allow production of thin and highly uniform films.

### Additives:

No additives

### Application:

Smooth or embossed films for diapers, disposable sheets, etc. Films for lamination. Injection-Blow Molding. Foamed applications.

### Process:

Recommended processing conditions for film extrusion about 145 - 190 °C. The optimum processing conditions will vary according to the type of equipment used and cannot be considered as performance guarantee.

### Control Properties:

	ASTM Methods	Units	Values
Melt Flow Rate (190/2.16)	D 1238	g/10 min	2.2
Density	D 792	g/cm <sup>3</sup>	0.922

### Typical Properties:

#### Blow Film Properties<sup>a</sup>

	ASTM Methods	Units	Values
Tensile Strength at Break (MD/TD)	D 882	MPa	30/20
Elongation at Break (MD/TD)	D 882	%	490/1060
1% Secant Modulus (MD/TD)	D 882	MPa	145/145
Dart Drop Impact	D 1709	g/F50	70
Elmendorf Tear Strength (MD/TD)	D 1922	gF	480/150
Haze	D 1003	%	6
Gloss - Angle 60°	D 2457	-	100

(MD = Machine Direction; TD = Transversal Direction)

(a) 70 µm thickness film, processed in a 50 mm blow film line with barrier screw. 25:1 L/D and a 1,0 mm die gap at a 2,3: 1 blow up ratio.

### Recommended Processing Conditions:

#### Cast Film Extrusion

- Temperature Profile:.....from 145 to 190°C
- Mass Temperature:.....190°C
- Blow up Ratio:.....from 2,0 to 3,0:1
- Die Gap:.....1,0 mm

