

# Low Density Polyethylene EB853

### **Description:**

EB853 low density polyethylene produced under high pressure in a Tubular reactor. Films obtained with this product show outstanding optical properties, good sealability, and low gel content.

## **Applications:**

Typical blown film applications include films for diapers and other general purposes as well as LLDPE and HDPE blends.

#### **Process:**

Blown and Cast Film Extrusion

#### **Control Properties:**

	ASTM Method	Units	Values
Melt Flow Rate (190°C/2.16kg)	D 1238	g/10 min	2.7
Density	D 1505	g/cm3	0.923

## **Properties:**

Blown Film Properties<sup>a</sup>

	ASTM Methods	Units	Values
Tensile Strength at Break (MD/TD)	D 882	MPa	25/20
Elongation at Break (MD/TD)	D 882	%	350/1050
Dart Drop Impact	D 1709	g/F50	80
Elmendorf Tear Strength (MD/TD)	D 1922	gF	NDb/210
Haze	D 1003	%	7
Gloss - Angle 60°	D 2457	%	75

<sup>(</sup>a) obtained in 75 mm extruder, blow up ratio 2:1, die gap 1,0 mm and 40 µm thickness.

# **Recommended Processing Conditions:**Blown Film Extrusion

_	Extruder:
_	LATITUDEI.

Screw - relation L/D	16 a 30:1
Compression Ratio	3 a 4:1
- Screw pack (Mesh)	40/60/40
- Temperature Profile	
1 <sup>a</sup> zone	110°C
Extruder	150°C
Die	160°C
- Blow up ratio:	from 2 to 3:1







<sup>(</sup>b) ND: Not Determined.