



## TR144

Polyethylene Product

### Product Description

*TR144 is a polyethylene product suitable for blown film. This material is polymerized with a chromium catalyst and it is designed for blown film applications that require excellent bubble stability and great processability. It is used for household bag and blend modifier for improved stiffness.*

### Product Characteristic

<b>Test Method Used</b>	ASTM	
<b>Features</b>	High Bubble Stability	Good Processability
<b>Typical Customer Applications</b>	T-shirt bags	Multi-wall liners
	Trash bags	Blend Modifier (Stiffness)

### Typical Properties

Physical	Test Method	Unit	Value
Melt Flow Rate (2.16 kg @190°C)	ASTM D1238	g/10min	0.18
Density	ASTM D1505	g/cm <sup>3</sup>	0.946
Mechanical (Blown Film, 1.0mil)	Test Method	Unit	Value
Dart	ASTM D1709	g	80
Elmendorf Tear MD	ASTM D1922	g	15
Elmendorf Tear TD	ASTM D1922	g	230
Tensile Strength at Break MD	ASTM D882	MPa	24
Tensile Strength at Break TD	ASTM D882	MPa	26
Tensile Elongation at Break MD	ASTM D882	%	350
Tensile Elongation at Break TD	ASTM D882	%	500

**Notes:** Results may vary depending on environmental conditions and /or devices.

## Processing Recommendation

The actual conditions depends on the type of equipment used.

## Extrusion Note

### *Fabrication Conditions For Blown Film.*

Extrusion Melt Temperature	185 – 200 °C
Screw Size	1.5 in (30mm)
Die Gap	0.06 in (1.5mm)
Die Diameter	2.5in (50mm)
Blow up Ratio	4.0 to 1.0

The nominal properties reported herein are representative of the product under these processing conditions, although film properties can vary depending on the specific film-blowing conditions. Therefore, the data should not be used for specification purposes.

## Storage

This material should be stored in dry conditions, protected from sunlight and at temperatures below 50 °C.

## Contact

GS Caltex