

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

Test Method Used ASTM

FeaturesHigh Bubble StabilityGood ProcessabilityTypical Customer ApplicationsT-shirt bagsMulti-wall liners

Trash bags Blend Modifier (Stifness)

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/cm³	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 Recommandation

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

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