

Marlex® 9656 Polyethylene

HIGH DENSITY POLYETHYLENE (HDPE)

This high density ethylene-hexene copolymer is tailored for blown film applications that require:

- High stiffness
- Excellent film drawdown
- Exceptional processability
- Blending with LLDPE and LDPE

Typical blown film applications include:

- Notion and millinery bags
- Multi-wall liners
- Coextrusions
- Overwraps

Nominal Resin Properties	English	SI	Method
Melt Index, 190 °C/2.16 kg	---	0.75 g/10 min	ASTM D1238
Density	---	0.956 g/cm ³	ASTM D1505

Nominal Blown Film Properties ¹ @ 1 mil	English	SI	Method
COF	0.25	0.25	ASTM D1894
Dart	---	< 50 g/mil	ASTM D1709
Elmendorf Tear MD	---	10 g/mil	ASTM D1922
Elmendorf Tear TD	---	600 g/mil	ASTM D1922
Tensile Strength at Break MD	8,000 psi	55 MPa	ASTM D882
Tensile Strength at Break TD	4,500 psi	31 MPa	ASTM D882
1 % Secant Modulus MD	130,000 psi	896 MPa	ASTM D882
1 % Secant Modulus TD	200,000 psi	1,380 MPa	ASTM D882
WVTR (@ 2 mil)	0.22 g/100in ² /day	3.3 g/m ² /day	ASTM F1249
OTR (@ 2 mil)	95 cm ³ /100in ² /day	1,480 cm ³ /m ² /day	ASTM D3985

1. Produced on a 3 in, 30:1 VLB, smooth bore extruder with an 8 in die @ 250 lb/h, 10 lb/h/in of die circumference, 2.5:1 BUR, 80 mil die pin.

