

Marlex® 9659 Polyethylene

HIGH DENSITY POLYETHYLENE (HDPE)

This high density ethylene homopolymer is tailored for blown film applications that require:

- Good moisture vapor barrier properties
- Paper-like film texture
- Exceptional drawdown
- Excellent stiffness

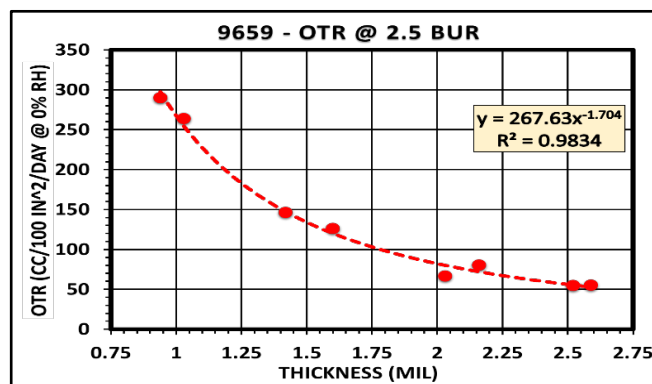
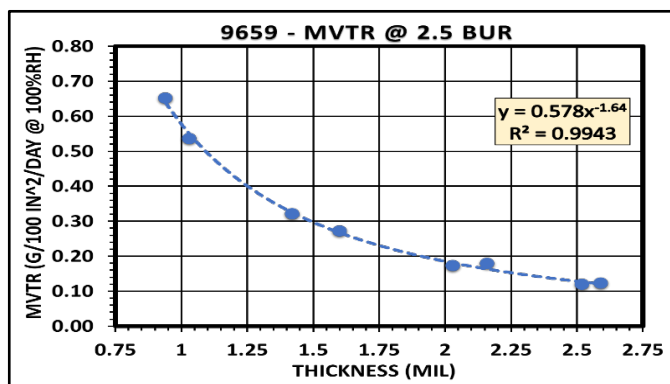
Typical blown film applications include:

- Food packaging
- Coextrusion applications
- Overwraps
- Deli wrap
- Moisture barrier films

Nominal Resin Properties	English	SI	Method
Melt Index, 190 °C/2.16 kg	---	1 g/10 min	ASTM D1238
Density	---	0.962 g/cm ³	ASTM D1505

Nominal Blown Film Properties ¹ @ 1 mil	English	SI	Method
COF	0.23	0.23	ASTM D1894
Dart	---	< 50 g/mil	ASTM D1709
Elmendorf Tear MD	---	10 g/mil	ASTM D1922
Elmendorf Tear TD	---	400 g/mil	ASTM D1922
Tensile Strength at Break MD	7,000 psi	48 MPa	ASTM D882
Tensile Strength at Break TD	5,000 psi	34 MPa	ASTM D882
1 % Secant Modulus MD	150,000 psi	1,030 MPa	ASTM D882
1 % Secant Modulus TD	225,000 psi	1,550 MPa	ASTM D882
WVTR (@ 2 mil)	0.19 g/100in ² /day	2.9 g/m ² /day	ASTM F1249
OTR (@ 2 mil)	82 cm ³ /100in ² /day	1,273 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.



Revision Date: August, 2021



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