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SUPERIOR FLEXIBLE PACKAGING RESINS

## Marlex<sup>®</sup> 9656 Polyethylene

HIGH DENSITY POLYETHYLENE (HDPE)

This high density polyethylene is an ethylene-hexene copolymer 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 <sup>3</sup>	ASTM D1505

Nominal Blown Film Properties at 1 mil <sup>1</sup>	English	SI	Method
COF	0.25	0.25	ASTM D1894
Dart	---	50 g/mil	ASTM D1709
Elmendorf Tear MD	---	13 g/mil	ASTM D1922
Elmendorf Tear TD	---	600 g/mil	ASTM D1922
Tensile Strength at Break MD	7400 psi	51 MPa	ASTM D882
Tensile Strength at Break TD	2600 psi	18 MPa	ASTM D882
Tensile Elongation at Break MD	580 %	580 %	ASTM D882
Tensile Elongation at Break TD	500 %	500 %	ASTM D882
1 % Secant Modulus MD	122000 psi	841 MPa	ASTM D882
1 % Secant Modulus TD	155000 psi	1069 MPa	ASTM D882
WVTR	0.31 g/100in <sup>2</sup> /day	4.8 g/m <sup>2</sup> /day	ASTM F1249
OTR	150 cm <sup>3</sup> /100in <sup>2</sup> /day	2300 cm <sup>3</sup> /m <sup>2</sup> /day	ASTM D3985

1. Produced using a grooved feed extruder at a rate of 8 lb/in die with a 2.5:1 BUR using a dual lip air ring

Revision Date: July, 2016

Another quality product from



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