

Marlex® 9608XD Polyethylene

HIGH DENSITY POLYETHYLENE (HDPE)

This high density polyethylene is tailored for cast film applications that require:

- Very low gel levels
- Very "clear" film
- Excellent drawdown
- Enhanced stiffness
- Excellent WVTR for a chill cast film
- Excellent processability

Typical cast film applications include:

- Coextrusions
- Overwrap
- Food packaging
- Moisture sensitive packaging

This high density polyethylene can also be used in extrusion coating applications that require:

- Enhanced stiffness
- Abrasion resistance
- Increased temperature resistance
- Improved WVTR

This high density grade is designed to be blended or coextruded with a low density polyethylene (LDPE) coating grade, if used in extrusion coating. Please contact your Technical Service representative for further information regarding blending this resin with LDPE.

Nominal Resin Properties	English	SI	Method
Melt Index, 190 °C/2.16 kg	---	8.0 g/10 min	ASTM D1238
Density	---	0.962 g/cm ³	ASTM D1505

Nominal Cast Film Properties at 1.25 mil ¹	English	SI	Method
Haze	11 %	11 %	ASTM D1003
Gloss, 60°	120	120	ASTM D2457
Dart	---	35 g/mil	ASTM D1709
Elmendorf Tear MD	---	35 g/mil	ASTM D1922
Elmendorf Tear TD	---	100 g/mil	ASTM D1922
Tensile Strength at Break MD	4,200 psi	29 MPa	ASTM D882
Tensile Strength at Break TD	3,300 psi	23 MPa	ASTM D882
Tensile Elongation at Break MD	870 %	870 %	ASTM D882
Tensile Elongation at Break TD	790 %	790 %	ASTM D882
1 % Secant Modulus MD	110,000 psi	758 MPa	ASTM D882
1 % Secant Modulus TD	122,000 psi	841 MPa	ASTM D882
WVTR	0.35 g/100in ² /day	5 g/m ² /day	ASTM F1249

1. Testing performed on a cast line @ 500 °F and a 0.025 in die gap

