

ExxonMobil™ HDPE HTA 002

High Density Polyethylene Resin

Product Description

HTA 002 is a general purpose medium molecular weight HDPE grade, characterized by easy processability, especially in coextrusion and blending with other polyolefins. HTA 002 can also be used pure, especially for easy processing and conversion into small and thin bags, to be used for light item packaging.

General

Additive	▪ Antiblock: No	▪ Slip: No	▪ Thermal Stabilizer: Yes
Applications	▪ Blown Film ▪ Collation Shrink ▪ Food packaging ▪ General Packaging ▪ Grocery Sacks	▪ Heavy Duty Bags ▪ Industrial Packaging ▪ Label Film ▪ Shrink Film ▪ Stand Up Pouches	▪ Thin Gauged Consumer Bags ▪ Trash Bags ▪ Trash Can Liners

Resin Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Density	0.952 g/cm ³	0.952 g/cm ³	ExxonMobil Method
High Load Melt Index (190°C/21.6 kg)	16 g/10 min	16 g/10 min	ASTM D1238
Melt Mass-Flow Rate (MFR) (190°C/5.0 kg)	0.68 g/10 min	0.68 g/10 min	ASTM D1238

Thermal	Typical Value (English)	Typical Value (SI)	Test Based On
Vicat Softening Temperature	259 °F	126 °C	ASTM D1525

Film Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Tensile Strength at Yield MD	4200 psi	29 MPa	ASTM D882
Tensile Strength at Yield TD	4200 psi	29 MPa	ASTM D882
Tensile Strength at Break MD	8000 psi	60 MPa	ASTM D882
Tensile Strength at Break TD	7300 psi	50 MPa	ASTM D882
Elongation at Break MD	320 %	320 %	ASTM D882
Elongation at Break TD	450 %	450 %	ASTM D882
Secant Modulus MD - 1% Secant	140000 psi	960 MPa	ASTM D882
Secant Modulus TD - 1% Secant	170000 psi	1200 MPa	ASTM D882
Dart Drop Impact	160 g	160 g	ASTM D1709A
Elmendorf Tear Strength MD	8 g	8 g	ASTM D1922
Elmendorf Tear Strength TD	60 g	60 g	ASTM D1922

