

ExxonMobil™ HDPE HTA 001HP2

High Density Polyethylene (HMW) Resin

Product Description

HTA 001HP2 is a high molecular weight HDPE film grade providing very good processability on high output extruders. Films made from HTA 001HP2 exhibit excellent impact and toughness properties as well as high stiffness.

General

Availability ¹	• Africa & Middle East	• Asia Pacific	• Europe
Additive	• Antiblock: No	• Slip: No	• Thermal Stabilizer: Yes
Applications	• Blown Film • Grocery Sacks	• Liners • Refuse Bags	• Shoppers • Thin Gauged Consumer Bags
Revision Date	• April 2012		

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)	9.5 g/10 min	9.5 g/10 min	ASTM D1238
Melt Mass-Flow Rate (MFR) (190°C/5.0 kg)	0.32 g/10 min	0.32 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	5900 psi	41 MPa	ASTM D882
Tensile Strength at Yield TD	4200 psi	29 MPa	ASTM D882
Tensile Strength at Break MD	8300 psi	60 MPa	ASTM D882
Tensile Strength at Break TD	7000 psi	48 MPa	ASTM D882
Elongation at Break MD	210 %	210 %	ASTM D882
Elongation at Break TD	430 %	430 %	ASTM D882
Secant Modulus MD	170000 psi	1200 MPa	ASTM D882
Secant Modulus TD - 1% Secant	170000 psi	1200 MPa	ASTM D882
Dart Drop Impact	190 g	190 g	ASTM D1709A
Elmendorf Tear Strength MD	7 g	7 g	ASTM D1922
Elmendorf Tear Strength TD	30 g	30 g	ASTM D1922

Legal Statement

Contact your ExxonMobil Chemical Customer Service Representative for potential food contact application compliance (e.g. FDA, EU, HPFB).

This product is not intended for use in medical applications and should not be used in any such applications.

Processing Statement

The film properties have been measured on 15 µm (0.59 mil) thick films with a blow-up ratio of 4 : 1 and a frostline height of 9 x die diameter (die diameter/ gap: 120mm/1.0mm (4.7 in/0.06 in); 215°C (419°F) melt temperature; 70 kg/hr (154 lb/hr) output).