

ExxonMobil™ HDPE HMA 014

High Density Polyethylene Resin

Product Description

HMA 014 is a UV stabilized HDPE grade, characterized by excellent dimensional stability, high stiffness and high impact strength.

General

Additive	▪ Thermal Stabilizer: Yes	▪ UV Stabilizer: Yes
Applications	▪ Boxes ▪ Heavy Duty Crates	▪ Large Sized Industrial Parts ▪ Wheelie Bins ▪ Trays

Resin Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Density	0.960 g/cm ³	0.960 g/cm ³	ExxonMobil Method
Melt Index (190°C/2.16 kg)	4.0 g/10 min	4.0 g/10 min	ASTM D1238

Thermal	Typical Value (English)	Typical Value (SI)	Test Based On
Heat Deflection Temperature (0.45 MPa)	165 °F	74 °C	ISO 75-2/B
Peak Melting Temperature	273 °F	134 °C	ASTM D3418

Molded Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Tensile Stress at Yield	3800 psi	26 MPa	ISO 527-2/1A/50
Tensile Strain at Yield	9 %	9 %	ISO 527-2/1A/50
Tensile Strain at Break	> 100 %	> 100 %	ISO 527-2/1A/50
Flexural Modulus	160000 psi	1100 MPa	ISO 178
Environmental Stress-Crack Resistance 122°F (50°C), 10% Igepal	7 hr	7 hr	ASTM D1693

Impact	Typical Value (English)	Typical Value (SI)	Test Based On
Notched Izod Impact Strength	4.8 ft-lb/in ²	10 kJ/m ²	ISO 180/1A

