

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
Revision Date	• April 2012	

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)	153 °F	67 °C	ISO 75-2/B
Peak Melting Temperature	271 °F	133 °C	ASTM D3418

Molded Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Tensile Stress at Yield	3500 psi	24 MPa	ISO 527-2/1A/50
Tensile Strain at Yield	10 %	10 %	ISO 527-2/1A/50
Tensile Strain at Break	> 100 %	> 100 %	ISO 527-2/1A/50
Flexural Modulus	150000 psi	1000 MPa	ISO 178
Environmental Stress-Crack Resistance 122°F (50°C), 10% Igepal	6 hr	6 hr	ASTM D1693

Impact	Typical Value (English)	Typical Value (SI)	Test Based On
Notched Izod Impact Strength	5.7 ft-lb/in ²	12 kJ/m ²	ISO 180/1A

Additional Information

The molded properties were measured on 4 mm (157.5 mil) thick injection molded specimen based on ISO 294-1.
ESCR was measured on 2 mm (78.7 mil) thick compression molded plate (F50, 10 % Igepal, 50°C, 122°F)

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.

Notes

¹ Product may not be available in one or more countries in the identified Availability regions. Please contact your Sales Representative for complete Country Availability.