

# 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			
Availability 1	Africa & Middle East	Asia Pacific	• Europe
Additive	Thermal Stabilizer: Yes	UV Stabilizer: Yes	
Applications	<ul><li>Boxes</li><li>Heavy Duty Crates</li></ul>	<ul><li>Large Sized Industrial Parts</li><li>Trays</li></ul>	Wheelie Bins
Revision Date	<ul> <li>March 2013</li> </ul>		

Resin Properties	Typical Value	(English)	Typical Value	(SI)	Test Based On
Density	0.960	g/cm³	0.960	g/cm³	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					ASTM D1693
122°F (50°C), 10% Igepal	7	hr	7	hr	

Impact	Typical Value (English)	Typical Value (SI)	Test Based On
Notched Izod Impact Strength	4.8 ft·lb/in²	10 kJ/m²	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.

Heat Deflection temperature sample preparation, injection based on ISO1872. Tested flatwise position with specimen size of 80mm x 10mm x 4mm.

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**

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

Typical properties: these are not to be construed as specifications.

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## ExxonMobil Chemical ExxonMobil™ HDPE HMA 014 High Density Polyethylene Resin

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