

# ExxonMobil™ HDPE HMA 035

## High Density Polyethylene Resin

### Product Description

HMA 035 is a UV stabilized HDPE grade, characterized by excellent dimensional stability, very high stiffness and good impact strength.

### General

Availability	• Africa & Middle East	• Asia Pacific	• Europe
Additive	• Thermal Stabilizer: Yes	• UV Stabilizer: Yes	
Applications	• Industrial Pails	• Vegetable and Bottle Crates	
Revision Date	• 3/2007		

Resin Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Density	0.964 g/cm <sup>3</sup>	0.964 g/cm <sup>3</sup>	ExxonMobil Method
Melt Index (190°C/2.16 kg)	8.0 g/10 min	8.0 g/10 min	ASTM D1238
Peak Melting Temperature	273 °F	134 °C	ExxonMobil Method

Thermal	Typical Value (English)	Typical Value (SI)	Test Based On
Heat Deflection Temperature (0.45 MPa)	162 °F	72.0 °C	ISO 75-2/B

Molded Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Tensile Stress at Yield	3770 psi	26.0 MPa	ISO 527-2/1A/50
Tensile Strain at Yield	9.0 %	9.0 %	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 10% Igepal	3.00 hr	3.00 hr	ASTM D1693

Impact	Typical Value (English)	Typical Value (SI)	Test Based On
Notched Izod Impact Strength	3.33 ft-lb/in <sup>2</sup>	7.00 kJ/m <sup>2</sup>	ISO 180/1A

### Additional Information

The molded properties were measured on 4 mm (157.5 mil) thick injection molded specimen based on ISO 1872-2.

- 0.45 MPa, 70 psi
- ESCR was measured on 2 mm (78.7 mil) thick compression molded plate (F50, 10 % Igepal, 50°C, 122°F)

### Legal Statement

HMA 035 can - in principle - be used in food contact applications in various EU Member States and in the USA (FDA). Migration or use limitations may apply. Please contact your ExxonMobil Chemical representative for more detailed information and/or actual compliance certification documents for the specific grade of interest.

ExxonMobil Polyethylene is not intended for use in medical applications.

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

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