

# ExxonMobil HDPE

## HMA 016

Injection Molding Resin

### Description

HMA 016 is a HDPE grade, characterized by fast cycling and good impact strength. It has high gloss and high dimensional stability.

### Applications

- housewares
- food containers
- closures
- toys

### Additive Package

HMA 016

### Thermal Stabilizer

Yes

Resin Properties	Test Based On	Typical Value / Unit	
Melt Index	ASTM D1238	20 g/10 min	
Density	ASTM D4703 / D1505	0.956 g/cm <sup>3</sup>	
Peak Melting Temperature	ASTM D3418	131 °C	268 °F
Crystallization Point	ASTM D3418	113 °C	235 °F

### Molded Properties

Flexural Modulus (0.05 - 0.25 %)	ISO 178	900 MPa	130500 psi
Yield Strength	ISO 527-2/1A/50	23 MPa	1900 psi
Elongation @ Break	ISO 527-2/1A/50	> 100 %	
Elongation @ Yield	ISO 527-2/1A/50	10 %	
IZOD Impact	ISO 180-1A	4 kJ/m <sup>2</sup>	1.9 ft-lb/in <sup>2</sup>
Temperature of deflection under load (*)	ISO 75-Be	71 °C	160 °F
Environmental Stress Crack Resistance (**)	ASTM D1693	3 hrs	

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)

HMA 016 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.

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