

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 D 1238	20 g/10 min	
Density	ASTM D 4703 / D 1505	0.956 g/cm ³	
Peak Melting Temperature	ExxonMobil Method	131 °C	268 °F

Molded Properties

Flexural Modulus (0.05 – 0.25 %)	ISO 178	900 MPa	130500 psi
Tensile Strength at Yield	ISO 527-2/1A/50	23 MPa	3350 psi
Elongation at Break	ISO 527-2/1A/50	> 100 %	
Elongation at Yield	ISO 527-2/1A/50	10 %	
IZOD Impact	ISO 180-1A	4 KJ/m ²	1.9 ft-lb/in ²
Temperature of Deflection Under Load ¹	ISO 75-Be	71 °C	160 °F
Environmental Stress Crack Resistance ²	ASTM D 1693	3 hrs	

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

1. 0.45 MPa, 70 psi

2. 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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