

# ExxonMobil™ HDPE HMA 016

## High Density Polyethylene Resin

### Product Description

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

### General

Availability 1	•Africa&MiddleEast	•AsiaPacific	•Europe
Additive	•ThermalStabilizer:Yes	•UVStabilizer:No	
Applications	•Closures •FoodPackagingContainers	•Housewares •Toys	
RevisionDate	•03/01/2013		

ResinProperties	TypicalValue(English)	TypicalValue(SI)	TestBasedOn
Density	0.956g/cm <sup>3</sup>	0.956g/cm <sup>3</sup>	ExxonMobil Method
MeltIndex(190°C/2.16kg)	20g/10min	20g/10min	ASTMD1238

Thermal	TypicalValue(English)	TypicalValue(SI)	TestBasedOn
HeatDeflectionTemperature(0.45MPa)	147°F	64°C	ISO75-2/B
PeakMeltingTemperature	271°F	133°C	ASTMD3418

MoldedProperties	TypicalValue(English)	TypicalValue(SI)	TestBasedOn
TensileStressatYield	3300psi	23MPa	ISO527-2/1A/50
TensileStrainatYield	10%	10%	ISO527-2/1A/50
TensileStrainatBreak	>100%	>100%	ISO527-2/1A/50
FlexuralModulus	140000psi	970MPa	ISO178
EnvironmentalStress-CrackResistance 122°F(50°C),10%Igepal	2hr	2hr	ASTMD1693

Impact	TypicalValue(English)	TypicalValue(SI)	TestBasedOn
NotchedIzodImpactStrength	1.9ft·lb/in <sup>2</sup>	4.0kJ/m <sup>2</sup>	ISO180/1A

### 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

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

<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.

ExxonMobil Chemical ExxonMobil™ HDPE HMA 016  
High Density Polyethylene Resin

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