

# ExxonMobil HDPE

## HMA 035

Injection Molding Resin

### Description

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

### Applications

- vegetable and bottle crates
- industrial pails

Additive Package	Thermal Stabilizer	UV Stabilizer
HMA 035	Yes	Yes

Resin Properties	Test Based On	Typical Value / Unit	
Melt Index	ASTM D1238	8 g/10 min	
Density	ASTM D4703 / D1505	0.964 g/cm <sup>3</sup>	
Peak Melting Temperature	ASTM D3418	134 °C	273 °F
Crystallization Point	ASTM D3418	116 °C	241 °F

### Molded Properties

Flexural Modulus (0.05 - 0.25 %)	ISO 178	1150 MPa	167000 psi
Yield Strength	ISO 527-2/1A/50	26 MPa	3750 psi
Elongation @ Break	ISO 527-2/1A/50	> 100 %	
Elongation @ Yield	ISO 527-2/1A/50	9 %	
IZOD Impact	ISO 180-1A	6 kJ/m <sup>2</sup>	2.9 ft-lb/in <sup>2</sup>
Temperature of deflection under load (*)	ISO 75-Be	76 °C	169 °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 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.

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