

PRELIMINARY DATA SHEET

ExxonMobil™ HDPE HMA 706

High Density Polyethylene Resin

Product Description

ExxonMobil™ HDPE HMA 706 is a HDPE grade, characterized by fast cycling and good impact strength. It has high gloss and high dimensional stability.

General

Availability ¹	▪ Africa & Middle East	▪ Asia Pacific	▪ Europe
Additive	▪ Thermal Stabilizer: Yes	▪ UV Stabilizer: No	
Applications	▪ Closures	▪ Housewares	
	▪ Food Packaging Containers	▪ Toys	
Revision Date	▪ 02/15/2021		

Resin Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Density	0.952 g/cm ³	0.952 g/cm ³	ASTM D1505
Melt Index (190°C/2.16 kg)	6.7 g/10 min	6.7 g/10 min	ASTM D1238

Thermal	Typical Value (English)	Typical Value (SI)	Test Based On
Heat Deflection Temperature (0.45 MPa)	145 °F	63 °C	ISO 75-2/B
Heat Deflection Temperature (1.80 MPa)	109 °F	43 °C	ISO 75-2/A
Peak Melting Temperature	264 °F	129 °C	ExxonMobil Method

Molded Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Tensile Stress at Yield	3300 psi	23 MPa	ISO 527-2/1A/50
Flexural Modulus			ISO 178
1% Secant	110000 psi	730 MPa	
2% Secant	87000 psi	600 MPa	
Environmental Stress-Crack Resistance			ASTM D1693
122°F (50°C), 10% Igepal	6 hr	6 hr	
Shore Hardness			ISO 868
Shore D, 15 sec, 73°F (23°C)	56	56	

Impact	Typical Value (English)	Typical Value (SI)	Test Based On
Notched Izod Impact Strength	2.7 ft·lb/in ²	5.7 kJ/m ²	ISO 180/1A

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.

¹ Product may not be available in one or more countries in the identified Availability regions. Please contact your Sales Representative for complete Country Availability.

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For additional technical, sales and order assistance: www.exxonmobilchemical.com/ContactUs

Product values shown are provisional and may change during the development process. Data contained herein was prepared pursuant to ExxonMobil's sampling and testing procedures in effect at the time the experimental product was produced.

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