

ExxonMobil™ HDPE HMA 018

High Density Polyethylene Resin

Product Description

HMA 018 is an easy flow HDPE grade, characterized by high gloss and dimensional stability.

General

Availability ¹	• Africa & Middle East	• Asia Pacific	• Europe
Additive	• Thermal Stabilizer: Yes	• UV Stabilizer: No	
Applications	• Food Packaging Containers	• Housewares - Multicavity Thin-Walled	
Revision Date	• March 2010		

Resin Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Density	0.954 g/cm ³	0.954 g/cm ³	ExxonMobil Method
Melt Index (190°C/2.16 kg)	30 g/10 min	30 g/10 min	ASTM D1238

Thermal	Typical Value (English)	Typical Value (SI)	Test Based On
Heat Deflection Temperature (0.45 MPa)	147 °F	64.0 °C	ISO 75-2/B
Melting Temperature	264 °F	129 °C	ASTM D3418

Molded Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Tensile Stress at Yield	3190 psi	22.0 MPa	ISO 527-2/1A/50
Tensile Strain at Yield	10 %	10 %	ISO 527-2/1A/50
Tensile Strain at Break	> 100 %	> 100 %	ISO 527-2/1A/50
Flexural Modulus	131000 psi	900 MPa	ISO 178
Environmental Stress-Crack Resistance 10% Igepal	< 1.00 hr	< 1.00 hr	ASTM D1693

Impact	Typical Value (English)	Typical Value (SI)	Test Based On
Notched Izod Impact Strength	1.9 ft-lb/in ²	4.0 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.

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)

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

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.

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

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