

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 & Middle East | ▪ Asia Pacific | ▪ Europe |
| Additive | ▪ Thermal Stabilizer: Yes | ▪ UV Stabilizer: No | |
| Applications | ▪ Closures | ▪ Housewares | |
| | ▪ Food Packaging Containers | ▪ Toys | |
| Revision Date | ▪ 01/01/2017 | | |

| Resin Properties | Typical Value (English) | Typical Value (SI) | Test Based On |
|----------------------------|-------------------------|-------------------------|---------------|
| Density | 0.956 g/cm ³ | 0.956 g/cm ³ | ASTM D1505 |
| Melt Index (190°C/2.16 kg) | 20 g/10 min | 20 g/10 min | ASTM D1238 |

| Thermal | Typical Value (English) | Typical Value (SI) | Test Based On |
|--|-------------------------|--------------------|---------------|
| Heat Deflection Temperature (0.45 MPa) | 146 °F | 64 °C | ISO 75-2/B |
| Peak Melting Temperature | 271 °F | 133 °C | ASTM D3418 |

| Molded Properties | Typical Value (English) | Typical Value (SI) | Test Based On |
|---|-------------------------|--------------------|-----------------|
| Tensile Stress at Yield | 3400 psi | 23 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 | 140000 psi | 970 MPa | ISO 178 |
| Environmental Stress-Crack Resistance 122°F (50°C), 10% Igepal | 2 hr | 2 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.

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

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