

# ExxonMobil™ HDPE HMA 025

## High Density Polyethylene Resin

### Product Description

HMA 025 is a HDPE grade, characterized by excellent dimensional stability, impact strength and very high stiffness.

### General

Additive	<ul style="list-style-type: none"> <li>Thermal Stabilizer: Yes</li> <li>UV Stabilizer: No</li> </ul>
Applications	<ul style="list-style-type: none"> <li>Industrial Pails</li> <li>Vegetable and Bottle Crates</li> </ul>

Resin Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Density	0.964 g/cm <sup>3</sup>	0.964 g/cm <sup>3</sup>	ExxonMobil Method
Melt Index (190°C/2.16 kg)	8.0 g/10 min	8.0 g/10 min	ASTM D1238

Thermal	Typical Value (English)	Typical Value (SI)	Test Based On
Heat Deflection Temperature (0.45 MPa)	151 °F	66 °C	ISO 75-2/B
Peak Melting Temperature	275 °F	135 °C	ASTM D3418

Molded Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Tensile Stress at Yield	3900 psi	27 MPa	ISO 527-2/1A/50
Tensile Strain at Yield	9 %	9 %	ISO 527-2/1A/50
Tensile Strain at Break	> 100 %	> 100 %	ISO 527-2/1A/50
Flexural Modulus	170000 psi	1200 MPa	ISO 178
Environmental Stress-Crack Resistance 122°F (50°C), 10% Igepal	4 hr	4 hr	ASTM D1693

Impact	Typical Value (English)	Typical Value (SI)	Test Based On
Notched Izod Impact Strength	2.9 ft·lb/in <sup>2</sup>	6.0 kJ/m <sup>2</sup>	ISO 180/1A

