

ExxonMobil™ HDPE HMA 035

High Density Polyethylene Resin

Product Description

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

General

Additive	▪ Thermal Stabilizer: Yes	▪ UV Stabilizer: Yes
Applications	▪ Industrial Pails	▪ Vegetable and Bottle Crates

Resin Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Density	0.964 g/cm ³	0.964 g/cm ³	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 ²	6.0 kJ/m ²	ISO 180/1A

