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			
Availability [1]	• Africa & Middle East	• Asia Pacific	• Europe
Additive	• Thermal Stabilizer: Yes	• UV Stabilizer: Yes	
Applications	• Industrial Pails	• Vegetable and Bottle Crates	
Revision Date	• March 2010		

Resin Properties	Typical Value	(English)	Typical Value	(SI)	Test Based On
Density	0.964	g/cm³	0.964	g/cm³	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)	162	°F	72.0	°C	ISO 75-2/B
Melting Temperature	273	°F	134	°C	ASTM D3418

Molded Properties	Typical Value	(English)	Typical Value	(SI)	Test Based On
Tensile Stress at Yield	3770	psi	26.0	MPa	ISO 527-2/1A/50
Tensile Strain at Yield	9.0	%	9.0	%	ISO 527-2/1A/50
Tensile Strain at Break	> 100	%	> 100	%	ISO 527-2/1A/50
Flexural Modulus	160000	psi	1100	MPa	ISO 178
Environmental Stress-Crack Resistance					ASTM D1693
10% Igepal	3.00	hr	3.00	hr	

Impact	Typical Value	(English)	Typical Value	(SI)	Test Based On
Notched Izod Impact Strength	3.3	ft·lb/in²	7.0	kJ/m²	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.