

ExxonMobil HDPE

HMA 025

Injection Molding Resin

Description

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

Applications

- vegetable and bottle crates
- industrial pails

Additive Package

HMA 025

Thermal Stabilizer

Yes

Resin Properties	Test Based On	Typical Value / Unit	
Melt Index (2.16 kg, 4.76 lb)	ASTM D1238	8 g/10 min	
Density	ASTM D4703 / D1505	0.964 g/cm ³	
Peak Melting Temperature	ASTM D3418	134 °C	273 °F
Crystallization Point	ASTM D3418	116 °C	241 °F

Molded Properties

Flexural Modulus (0.05 - 0.25 %)	ISO 178	1150 MPa	167000 psi
Yield Strength	ISO 527-2/1A/50	26 MPa	3750 psi
Elongation @ Break	ISO 527-2/1A/50	> 100 %	
Elongation @ Yield	ISO 527-2/1A/50	9 %	
IZOD Impact	ISO 180-1A	6 kJ/m ²	2.9 ft-lb/in ²
Temperature of deflection under load (*)	ISO 75-Be	76 °C	169 °F
Environmental Stress Crack Resistance (**)	ASTM D1693	3 hrs	

The molded properties were measured on 4 mm (157.5 mil) thick injection molded specimen based on ISO 1872-2.

(*) 0.45 MPa, 70 psi

(**) ESCR was measured on 2 mm (78.7 mil) thick compression molded plate (F50, 10 % Igepal, 50 °C, 122 °F)

HMA 025 can - in principle - be used in food contact applications in various EU Member States and in the USA (FDA). Migration or use limitations may apply. Please contact your ExxonMobil Chemical representative for more detailed information and/or actual compliance certification documents for the specific grade of interest.

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