

# ExxonMobil™ HD 50330

## High Density Polyethylene

### Product Description

ExxonMobil™ HD 50330 is a narrow molecular weight hexene copolymer designed to maximize injection molding speed and productivity in thin wall articles. Lower processing temperatures enable production of products free of taste and odor for food and beverage packaging.

### General

Availability <sup>1</sup>	<ul style="list-style-type: none"> <li>Latin America</li> <li>North America</li> </ul>
Additive	<ul style="list-style-type: none"> <li>Antioxidant: Yes</li> </ul>
Applications	<ul style="list-style-type: none"> <li>Food Packaging Containers</li> <li>Houseware Articles</li> <li>Food Service Trays</li> <li>Housewares</li> <li>Toys</li> </ul>
Revision Date	<ul style="list-style-type: none"> <li>03/13/2015</li> </ul>

Resin Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Density	0.950 g/cm <sup>3</sup>	0.950 g/cm <sup>3</sup>	ASTM D1505
Melt Index (190°C/2.16 kg)	33 g/10 min	33 g/10 min	ASTM D1238

Thermal	Typical Value (English)	Typical Value (SI)	Test Based On
Deflection Temperature Under Load (DTUL) at 66psi - Unannealed	161 °F	71 °C	ASTM D648
Deflection Temperature Under Load (DTUL) at 264psi - Unannealed	110 °F	43 °C	ASTM D648B
Peak Melting Temperature	265 °F	130 °C	ASTM D3418

Molded Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Tensile Strength at Yield	3400 psi	24 MPa	ASTM D638
Elongation at Break	20 %	20 %	ExxonMobil Method
Flexural Modulus			ASTM D790B
1% Secant	170000 psi	1200 MPa	
2% Secant	140000 psi	1000 MPa	
Environmental Stress-Crack Resistance 10% Igepal, F50	< 1 hr	< 1 hr	ASTM D1693B

Impact	Typical Value (English)	Typical Value (SI)	Test Based On
Notched Izod Impact (-40°F (-40°C))	0.42 ft-lb/in	23 J/m	ASTM D256

### Additional Information

- Properties are based on compression molded plaques, ASTM D4703C.
- Tensile Strength at Yield and Elongation at Break tested using ASTM D638 Type IV, 2 in/min.
- Flexural Modulus tested used ASTM D790B, 0.5 in/min.

### 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.

<sup>1</sup> 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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