

# ExxonMobil™ HD 52140

## High Density Polyethylene

### Product Description

ExxonMobil™ HD 52140 is a narrow molecular weight hexene copolymer designed for a wide range of injection molding applications requiring easy processability and good toughness properties. This resin is ideally suited for articles requiring low warpage, glossy surfaces and good cold temperature impact performance.

### General

Availability <sup>1</sup>	▪ Latin America	▪ North America
Additive	▪ Antioxidant	
Applications	▪ Bins ▪ Closures and Dispensers	▪ Food Packaging Containers ▪ Protective Caps ▪ Housewares
Revision Date	▪ 06/22/2015	

Resin Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Density	0.952 g/cm <sup>3</sup>	0.952 g/cm <sup>3</sup>	ASTM D1505
Melt Index (190°C/2.16 kg)	14 g/10 min	14 g/10 min	ASTM D1238

Thermal	Typical Value (English)	Typical Value (SI)	Test Based On
Deflection Temperature Under Load (DTUL) at 66psi - Unannealed	160 °F	71 °C	ASTM D648
Deflection Temperature Under Load (DTUL) at 264psi - Unannealed	113 °F	45 °C	ASTM D648
Peak Melting Temperature	264 °F	129 °C	ASTM D3418

Molded Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Tensile Strength at Yield 2.0 in/min (50 mm/min)	3600 psi	25 MPa	ASTM D638
Elongation at Break	250 %	250 %	ExxonMobil Method
Flexural Modulus 1% Secant 2% Secant	180000 psi 160000 psi	1200 MPa 1100 MPa	ASTM D790
Environmental Stress-Crack Resistance 10% Igepal, F50	3 hr	3 hr	ASTM D1693B

Impact	Typical Value (English)	Typical Value (SI)	Test Based On
Notched Izod Impact (-40°F (-40°C))	0.77 ft-lb/in	41 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

This product is not intended for use in medical applications and should not be used in any such applications.

Contact your ExxonMobil Chemical Customer Service Representative for potential food contact application compliance (e.g. FDA, EU, HPFB).

### 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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