

ExxonMobil™ HDPE HD 6733.17

High Density Polyethylene Copolymer Resin

Product Description

HD 6733 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

Additive	▪ Antioxidant: Yes		
Applications	▪ Food Packaging Containers ▪ Food Service Trays	▪ Houseware Articles ▪ Housewares	▪ Toys

Resin Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Density	0.950 g/cm ³	0.950 g/cm ³	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			ASTM D1693B
10% Igepal, F50	< 1 hr	< 1 hr	

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

