

ExxonMobil™ HDPE HD 6714.17

High Density Polyethylene Resin

Product Description

HD 6714 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

Additive	▪ Antioxidant		
Applications	▪ Bins	▪ Food Packaging Containers	▪ Protective Caps
	▪ Closures and Dispensers	▪ Housewares	

Resin Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Density	0.952 g/cm ³	0.952 g/cm ³	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	180000 psi	1200 MPa	ASTM D790
2% Secant	160000 psi	1100 MPa	
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

