

ExxonMobil™ HDPE HD 6605.70

High Density Polyethylene Copolymer Resin

Product Description

HD 6605.70 is a narrow molecular weight hexene copolymer designed for a wide range of injection molding applications, offering excellent ESCR with good stiffness-toughness balance. Ideally suited for articles requiring rugged physical performance in cold temperature environments.

General

Additive	▪ Anti-gas fading: Yes	
Applications	▪ Automotive Components	▪ Recreational Vehicle - Components
	▪ Industrial Closures	▪ Waste Carts

Resin Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Density	0.948 g/cm ³	0.948 g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	5.0 g/10 min	5.0 g/10 min	ASTM D1238 (mod)

Thermal	Typical Value (English)	Typical Value (SI)	Test Based On
Deflection Temperature Under Load (DTUL) at 66psi - Unannealed	156 °F	69 °C	ASTM D648
Deflection Temperature Under Load (DTUL) at 264psi - Unannealed	108 °F	42 °C	ASTM D648B
Peak Melting Temperature	266 °F	130 °C	ASTM D3418

Molded Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Tensile Strength at Yield	3400 psi	23 MPa	ASTM D638
Elongation at Break	1000 %	1000 %	ExxonMobil Method
Flexural Modulus			ASTM D790B
1% Secant	160000 psi	1100 MPa	
2% Secant	140000 psi	970 MPa	
Environmental Stress-Crack Resistance			ASTM D1693B
10% Igepal, F50	20 hr	20 hr	

Impact	Typical Value (English)	Typical Value (SI)	Test Based On
Notched Izod Impact (-40°F (-40°C))	1.0 ft·lb/in	55 J/m	ASTM D256

