

ExxonMobil™ HDPE HD 6908 Series

High Density Polyethylene Resin

Product Description

HD 6908 is a homopolymer with outstanding stiffness with a good balance of processability and cold temperature impact performance. This resin is ideally suited for articles requiring very high stiffness or enable down-gauging. This material offers excellent performance in structural foam articles.

General

Additive	- HD 6908.65: Antioxidant: Yes; UV Stabilizer: Yes - HD 6908.19: Antioxidant: Yes; UV Stabilizer: No
Applications	- Cases - Crates - Hot Fill Packaging Pails - Materials Handling Articles - Pallets - Structural Foam Articles - Totes Bins

Resin Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Density	0.965 g/cm ³	0.965 g/cm ³	ASTM D1505
Melt Index (190°C/2.16 kg)	8.2 g/10 min	8.2 g/10 min	ASTM D1238

Thermal	Typical Value (English)	Typical Value (SI)	Test Based On
Deflection Temperature Under Load (DTUL) at 66psi - Unannealed	189 °F	87 °C	ASTM D648
Deflection Temperature Under Load (DTUL) at 264psi - Unannealed	119 °F	49 °C	ASTM D648B
Peak Melting Temperature	275 °F	135 °C	ASTM D3418

Molded Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Tensile Strength at Yield	4400 psi	30 MPa	ASTM D638
Elongation at Break	440 %	440 %	ExxonMobil Method
Flexural Modulus			ASTM D790B
1% Secant	270000 psi	1900 MPa	
2% Secant	230000 psi	1600 MPa	
Environmental Stress-Crack Resistance			ASTM D1693B
10% Igepal, F50	3 hr	3 hr	

Impact	Typical Value (English)	Typical Value (SI)	Test Based On
Notched Izod Impact (-40°F (-40°C))	0.89 ft-lb/in	47 J/m	ASTM D256

