

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

Availability ¹	• North America
Additive	• HD 6908.19: Antioxidant: Yes; UV Stabilizer: No • HD 6908.65: Antioxidant: Yes; UV Stabilizer: Yes
Applications	• Cases • Crates • Hot Fill Packaging Pails • Materials Handling Articles • Totes Bins • Pallets • Structural Foam Articles
Revision Date	• March 2013

Resin Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Density	0.965 g/cm³	0.965 g/cm³	ASTM D4883
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
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

Additional Information

- Properties are based on compression molded samples.
- Test procedures may be modified to accommodate operating conditions or facility limitations.
- Tensile Strength at Yield and Elongation at Break tested using ASTM D638 Type IV, 50 mm/min.

Legal Statement

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

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