Product Datasheet

ExxonMobil Signature Polymers

ExxonMobil™ HD 6582 Series

High Density Polyethylene

Product Description

ExxonMobil™ HD 6582 is a homopolymer with outstanding stiffness with a good balance of processability and cold temperature impact performance. This resin isideally 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 6582: Antioxidant: Yes; UV Stabilizer: No	▪ HD 6582.UV: Antioxidant: Yes; UV Stabilizer: Yes	
Applications	▪ Cases ▪ Crates ▪ Hot Fill Packaging Pails	▪ Materials Handling Articles ▪ Pallets ▪ Structural Foam Articles	▪ Totes Bins
Revision Date	▪ 03/13/2015		

Resin Properties	Typical Value (English)		Typical Value (SI)		Test Based On
Density	0.965	g/cm³	0.965	g/cm³	ASTM D1505
Melt Index (190°C/2.16 kg)	8.2	g/10 min	8.2	g/10 min	ASTM D1238
Peak Melting Temperature	275	°F	135	°C	ExxonMobil Method

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

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

Additional Information

- Properties are based on compression molded plaques, ASTM D4703C.
- Tensile Strength at Yield and Elongation at Break tested using ASTM D638 Type IV, 2 in/min.
- Flexural Modulus tested used ASTM D790B, 0.5 in/min.

Legal Statement

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

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

Notes

Typical properties: these are not to be construed as specifications.

[1] Product may not be available in one or more countries in the identified Availability regions. Please contact your Sales Representative for complete Country Availability.

Manufacturer website: https://www.exxonmobilchemical.com/en/products/polyethylene

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For additional technical, sales and order assistance: Contact Us

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