ExxonMobil Signature Polymers

ExxonMobil™ HD 5530HL

High Density Polyethylene

Product Description

ExxonMobil™ HD 5530HL is a high molecular weight, high-density polyethylene copolymer. This resin has superior stress crack resistance, high impact strength and good rigidity.

General

Availability [1]	▪ Africa & Middle East ▪ Europe	▪ Latin America ▪ North America	
Applications	▪ Drums ▪ Food Packaging ▪ Heavy Gauge Sheet	▪ Highway Drainage Pipe ▪ Large Part Blow Molding ▪ Shot Gun Shells	▪ Thermoformed Parts
Form(s)	▪ Pellets		
Processing Method	▪ Blow Molding	▪ Sheet Extrusion	▪ Thermoforming
Revision Date	▪ 08/21/2020		

Resin Properties	Typical Value (English)		Typical Value (SI)		Test Based On
Density	0.955	g/cm³	0.955	g/cm³	ASTM D1505
Melt Index (190°C/2.16 kg)	< 0.10	g/10 min	< 0.10	g/10 min	ASTM D1238
High Load Melt Index (190°C/21.6 kg)	3.0	g/10 min	3.0	g/10 min	ASTM D1238

Thermal	Typical Value (English)		Typical Value (SI)		Test Based On
Vicat Softening Temperature	264	°F	129	°C	ASTM D1525
Peak Melting Temperature	271	°F	133	°C	ExxonMobil Method
Crystallization Peak, Tc	244	°F	118	°C	ExxonMobil Method

Molded Properties	Typical Value (English)		Typical Value (SI)		Test Based On
Tensile Strength at Yield	4000	psi	28	MPa	ASTM D638
Flexural Modulus					
1% Secant : 0.051 in/min (1.3 mm/min)	150000	psi	1000	MPa	ASTM D790A
2% Secant	120000	psi	850	MPa	ASTM D790
Environmental Stress-Crack Resistance					ASTM D1693B
100% Igepal	580	hr	580	hr	

Impact	Typical Value (English)		Typical Value (SI)		Test Based On
Charpy Notched Impact Strength					ISO 179/1eA
-4°F (-20°C)	21	ft·lb/in²	45	kJ/m²	
73°F (23°C)	29	ft·lb/in²	61	kJ/m²	

Additional Information

All molded properties were measured on compression molded plaques. ExxonMobil™ HD 5530HL is NSF® -51 Certified.

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.

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For additional technical, sales and order assistance: Contact Us

exxonmobilchemical.com