ExxonMobil Signature Polymers

ExxonMobil™ HD 4663HL.UV

(Legacy name: Paxon™ BZ45-060)

High Density Polyethylene

Product Description

ExxonMobil™ HD 4663HL.UV is a high molecular weight high density polyethylene copolymer which contains an UV inhibitor. It provides a combination of excellent processability, outstanding melt strength, high impact strength, chemical resistance and high stress cracking resistance.

General

Availability [1]	▪ Africa & Middle East ▪ Europe	▪ Latin America ▪ North America
Additive	▪ UV Stabilizer	
Applications	▪ Intermediate Bulk Containers	
Revision Date	▪ 06/03/2020	

Resin Properties	Typical Value (English)		Typical Value (SI)		Test Based On
Density	0.946	g/cm³	0.946	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)	6.3	g/10 min	6.3	g/10 min	ASTM D1238

Thermal	Typical Value (English)		Typical Value (SI)		Test Based On
Deflection Temperature Under Load (DTUL) at 66psi - Unannealed	148	°F	65	°C	ExxonMobil Method

Molded Properties	Typical Value (English)		Typical Value (SI)		Test Based On
Tensile Strength at Yield	3500	psi	24	MPa	ExxonMobil Method
Flexural Modulus - 1% Secant (0.050 in/min (1.3 mm/min))	120000	psi	820	MPa	ExxonMobil Method
Environmental Stress-Crack Resistance					ExxonMobil Method
100% Igepal	> 1000	hr	> 1000	hr	
Durometer Hardness (Shore D, 15 sec)	53		53		ExxonMobil Method

Impact	Typical Value (English)		Typical Value (SI)		Test Based On
Charpy Notched Impact Strength					ExxonMobil Method
-4°F (-20°C), Type 1, Edgewise, Notch A	8.9	ft·lb/in²	19	kJ/m²	
73°F (23°C), Type 1, Edgewise, Notch A	12	ft·lb/in²	25	kJ/m²	

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.

This product is not intended for use in fuel systems utilizing biodiesel.

Processing Statement

All physical properties were measured on compression molded specimens.

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: www.exxonmobilchemical.com/ContactUs

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