

# EVALENE® HDPE HB33531

High Density Polyethylene

JG Summit Petrochemical Corporation

## Message:

HDPE is used to make large drums, bleach bottles, shopping bags, crates nets and pails.

Tough. Rigid. Heavy Duty. With High Chemical Resistance.

These qualities make Evalene® HDPE suitable for a diverse line of industrial products.

Blown Film: Shopping and grocery bags

Pipes: Pressure and non-pressure pipes

Blow Molding: Bottles for household and industrial chemicals, large drums

Injection Molding: Pallets, crates, cases, trays, toys, houseware, caps

## General Information

Features	Fast Molding Cycle Good Chemical Resistance Good Toughness High ESCR (Stress Crack Resist.) High Rigidity
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Uses	Blow Molding Applications Bottles Fruit Juice Bottles
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Agency Ratings	FDA 21 CFR 177.1520
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Forms	Pellets
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Processing Method	Blow Molding
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Physical	Nominal Value	Unit	Test Method
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Density	0.953	g/cm <sup>3</sup>	ASTM D1505
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Melt Mass-Flow Rate (MFR)			ASTM D1238
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190°C/2.16 kg <sup>1</sup>	0.39	g/10 min	
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190°C/21.6 kg	33	g/10 min	
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Environmental Stress-Cracking Resistance (F50)	50.0	hr	ASTM D1693
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Mechanical	Nominal Value	Unit	Test Method
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Tensile Modulus <sup>2</sup> (Injection Molded)	800	MPa	ASTM D638
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Tensile Strength <sup>3</sup> (Yield, Injection Molded)	25.0	MPa	ASTM D638
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Tensile Elongation <sup>4</sup> (Break, Injection Molded)	> 500	%	ASTM D638
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## NOTE

1.	Product is controlled by Flow Index. Melt Index is estimated for customer use.
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2.	5.0 mm/min
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3.	50 mm/min
4.	50 mm/min

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