

EVALENE® HDPE HF14462

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	Good Chemical Resistance		
	Good Processability		
	Good Toughness		
	High Rigidity		
	Medium Molecular Weight		
	Salt Water/Spray Resistant		
Uses	Bags		
	Film		
Agency Ratings	FDA 21 CFR 177.1520		
Forms	Pellets		
Processing Method	Blown Film		
Physical	Nominal Value	Unit	Test Method
Density	0.946	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR)			ASTM D1238
190°C/2.16 kg ¹	0.15	g/10 min	
190°C/21.6 kg	14	g/10 min	
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	25	µm	
Secant Modulus ²			ASTM D882
MD : 25 µm	1000	MPa	
TD : 25 µm	1050	MPa	
Tensile Strength ³			ASTM D882
MD : Yield, 25 µm	28.0	MPa	
TD : Yield, 25 µm	30.0	MPa	
MD : Break, 25 µm	38.0	MPa	
TD : Break, 25 µm	35.0	MPa	
Tensile Elongation ⁴			ASTM D882

MD : Break, 25 µm	> 500	%	
TD : Break, 25 µm	> 500	%	
Dart Drop Impact (25 µm)	120	g	ASTM D1709A
Elmendorf Tear Strength			ASTM D1922
MD : 25 µm	15	g	
TD : 25 µm	50	g	

NOTE

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| 1. | Product is controlled by Flow Index. melt Index is estimated for customer use. |
| 2. | 25 mm/min |
| 3. | 500 mm/min |
| 4. | 500 mm/min |

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