

EVALENE® HDPE HP17411

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 Toughness		
	High ESCR (Stress Crack Resist.)		
	High Rigidity		
Uses	Piping		
Agency Ratings	FDA 21 CFR 177.1520		
Forms	Pellets		
Processing Method	Pipe Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	0.941	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR)			ASTM D1238
190°C/2.16 kg ¹	0.18	g/10 min	
190°C/21.6 kg	17	g/10 min	
Environmental Stress-Cracking Resistance (F50)	> 1000	hr	ASTM D1693
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus ² (Compression Molded)	700	MPa	ASTM D638
Tensile Strength ³			ASTM D638
Yield, Compression Molded	21.0	MPa	
Break, Compression Molded	24.0	MPa	
Tensile Elongation ⁴ (Break, Compression Molded)	> 500	%	ASTM D638
NOTE			
1.	Product is controlled by Flow Index. melt Index is estimated for customer use.		
2.	Type IV, 5.0 mm/min		
3.	Type IV, 50 mm/min		
4.	Type IV, 50 mm/min		

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