

# TITANZEX® HB6200

High Density Polyethylene

Lotte Chemical Titan (M) Sdn. Bhd.

Message:

HB6200 is a high density polyethylene for blow molding. HB6200 meets the U.S. Food and Drug Administration (FDA) criteria for food contact use as specified in 21 CFR 177.1520 (c) 3.1a & 3.2a.

APPLICATIONS:

Household and industrial chemical containers, Toiletries, Cosmetic containers, Pharmaceutical containers.

Characteristics:

Excellent ESCR & excellent mechanical strength.

General Information			
Features	Good Strength		
	High Density		
	High ESCR (Stress Crack Resist.)		
Uses	Blow Molding Applications		
	Containers		
	Cosmetics		
	Industrial Containers		
	Pharmaceuticals		
Agency Ratings	FDA 21 CFR 177.1520(c) 3.1a		
	FDA 21 CFR 177.1520(c) 3.2a		
Processing Method	Blow Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.956	g/cm <sup>3</sup>	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.45	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (F50)	> 600	hr	ASTM D1693
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	64		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638
Yield	26.5	MPa	
Break	34.3	MPa	
Tensile Elongation (Break)	> 500	%	ASTM D638
Apparent Bending Modulus	981	MPa	ASTM D747
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	98	J/m	ASTM D256

Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	128	°C	ASTM D1525

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