

TITANZEX® HI2000

High Density Polyethylene

Lotte Chemical Titan (M) Sdn. Bhd.

Message:

HI2000 is a high density polyethylene for injection molding. HI2000 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:

Caps and closures for mineral water bottles.

ADVANTAGES:

Excellent mechanical strength and excellent organoleptic property.

General Information			
Features	Good Organoleptic Properties Good Strength High Density		
Uses	Caps Closures		
Agency Ratings	FDA 21 CFR 177.1520(c) 3.1a FDA 21 CFR 177.1520(c) 3.2a		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.953	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	2.0	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (F50)	10.0	hr	ASTM D1693
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	63		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638
Yield	28.4	MPa	
Break	21.6	MPa	
Tensile Elongation (Break)	> 500	%	ASTM D638
Apparent Bending Modulus	981	MPa	ASTM D747
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	78	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	124	°C	ASTM D1525

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