

TITANZEX® HI2200

High Density Polyethylene

Lotte Chemical Titan (M) Sdn. Bhd.

Message:

HI2200 is a high density polyethylene for injection molding. HI2200 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:

Large sized heavy duty articles, Crates and containers, Industrial pails, Chicken cages, Dustbins.

Characteristics:

Excellent mechanical strength.

General Information			
Features	Good Strength		
	High Density		
Uses	Containers		
	Crates		
	Industrial Applications		
	Pails		
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	0.957	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	4.0	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (F50)	5.00	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	32.4	MPa	
Break	16.7	MPa	
Tensile Elongation (Break)	> 300	%	ASTM D638
Apparent Bending Modulus	1030	MPa	ASTM D747
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	59	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	124	°C	ASTM D1525

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