

TITANEX® HB0972

High Density Polyethylene

Lotte Chemical Titan (M) Sdn. Bhd.

Message:

HB0972 is a pelleted high molecular weight, high density polyethylene Hexene-1 resin for blow molding. HB0972 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 size shipping containers and drums, household and industrial chemical containers, toiletries and cosmetic containers.

Characteristics:

Excellent stress crack resistance, excellent resistance to most chemicals and outstanding rigidity with high impact strength, high melt strength and moderate die swell.

General Information			
Features	Good Chemical Resistance Good Melt Strength Hexene Comonomer High Density High ESCR (Stress Crack Resist.) High Impact Resistance High Rigidity Moderate Die Swell		
Uses	Blow Molding Applications Containers Cosmetics Drums Industrial Containers		
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	0.949	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR)			ASTM D1238
190°C/2.16 kg	0.10	g/10 min	
190°C/21.6 kg	10	g/10 min	
Environmental Stress-Cracking Resistance ¹ (50°C, 100% Igepal, F50)	> 1000	hr	ASTM D1693
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638
Yield	30.4	MPa	

Break	36.3	MPa	
Tensile Elongation (Break)	> 600	%	ASTM D638
Flexural Modulus	1100	MPa	ASTM D790
Extrusion	Nominal Value	Unit	
Cylinder Zone 1 Temp.	180	°C	
Cylinder Zone 5 Temp.	190	°C	
Die Temperature	190	°C	
NOTE			

1. 1.9 mm, slit

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