

# TITANZEX® HM5001

High Density Polyethylene

Lotte Chemical Titan (M) Sdn. Bhd.

Message:

HM5001 is a high density polyethylene for yarn extrusion. HM5001 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:

Stretched tapes, Raffia, Tarpaulin, Fishing nets & ropes.

Characteristics:

Excellent processability and excellent mechanical strength.

General Information			
Features	Good Processability		
	Good Strength		
	High Density		
Uses	Tape		
	Yarn		
Agency Ratings	FDA 21 CFR 177.1520(c) 3.1a		
	FDA 21 CFR 177.1520(c) 3.2a		
Processing Method	Filament Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	0.958	g/cm <sup>3</sup>	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	1.0	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)	55		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638
Yield	26.5	MPa	
Break	24.5	MPa	
Tensile Elongation (Break)	> 500	%	ASTM D638
Apparent Bending Modulus	785	MPa	ASTM D747
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	390	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	125	°C	ASTM D1525

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