

TITANZEX® HM5000

High Density Polyethylene

Lotte Chemical Titan (M) Sdn. Bhd.

Message:

HM5000 is a high density polyethylene for extrusion monofilament. HM5000 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:

Yarn, Ropes, Fishing nets.

Characteristics:

Excellent processability, high stiffness, high draw down capability.

General Information			
Features	Good Drawdown		
	Good Processability		
	High Density		
	High Stiffness		
Uses	High Tenacity Flat Yarn		
	Monofilaments		
	Netting		
	Rope		
Agency Ratings	FDA 21 CFR 177.1520(c) 3.1a		
	FDA 21 CFR 177.1520(c) 3.2a		
Physical	Nominal Value	Unit	Test Method
Density	0.951	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.80	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (F50)	30.0	hr	ASTM D1693
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	62		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638
Yield	25.5	MPa	
Break	38.2	MPa	
Tensile Elongation (Break)	> 500	%	ASTM D638
Apparent Bending Modulus	785	MPa	ASTM D747
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	200	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method

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