

Lotte Chemical Titan TITANZEX[®] HM5001 High density polyethylene

Category : Polymer , Thermoplastic , Polyethylene (PE) , HDPE , High Density Polyethylene (HDPE), Extruded

Material Notes:

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
Advantages: Excellent processability
Excellent mechanical strength
Information provided by Titan Chemicals

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lotte-Chemical-Titan-TITANZEX-HM5001-High-density-polyethylene.php

Physical Properties	Metric	English	Comments
Base Resin Density	0.958 g/cc	0.0346 lb/in ³	ASTM D1505
Environmental Stress Crack Resistance	10 hour	10 hour	F ₅₀ ; ASTM D1693
Base Resin Melt Index	1.0 g/10 min	1.0 g/10 min	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	55	55	ASTM D2240
Tensile Strength at Break	24.5 MPa	3550 psi	ASTM D638
Tensile Strength, Yield	26.5 MPa	3840 psi	ASTM D638
Elongation at Break	>= 500 %	>= 500 %	ASTM D638
Flexural Stiffness	784.5 MPa	113800 psi	Olsen; ASTM D747
Izod Impact, Notched	3.92 J/cm	7.34 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Vicat Softening Point	125 °C	257 °F	resin; ASTM D1525

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