

Lotte Chemical Titan TITANZEX® HI2000 High density polyethylene

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

Material Notes:

HI2000 is a high density polyethylene for injection molding. HI2000 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: Cap and closures for mineral water bottle. Advantages: Excellent mechanical strength Excellent organoleptic property Information provided by Titan Chemicals

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lotte-Chemical-Titan-TITANZEX-HI2000-High-density-polyethylene.php

Physical Properties	Metric	English	Comments
Base Resin Density	0.953 g/cc	0.0344 lb/in ³	ASTM D1505
Environmental Stress Crack Resistance	10 hour	10 hour	F ₅₀ ; ASTM D1693
Base Resin Melt Index	2.0 g/10 min	2.0 g/10 min	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	63	63	ASTM D2240
Tensile Strength at Break	21.6 MPa	3130 psi	ASTM D638
Tensile Strength, Yield	28.4 MPa	4120 psi	ASTM D638
Elongation at Break	≥ 500 %	≥ 500 %	ASTM D638
Flexural Stiffness	980.7 MPa	142200 psi	Olsen; ASTM D747
Izod Impact, Notched	0.784 J/cm	1.47 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Vicat Softening Point	124 °C	255 °F	resin; ASTM D1525

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