

Lotte Chemical Titan TITANZEX[®] HF7000 High density polyethylene

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

Material Notes:

HF7000 is a high density polyethylene resin for tubular film extrusion. HF7000 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: Very thin reinforcing film Grocery bags Merchandize bags Disposal waste bags Shopping bags Advantages: Excellent process ability Excellent draw down capability High film strength and rigidity Information provided by Titan Chemicals

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lotte-Chemical-Titan-TITANZEX-HF7000-High-density-polyethylene.php

Physical Properties	Metric	English	Comments
Base Resin Density	0.953 g/cc	0.0344 lb/in ³	ASTM D1505
Thickness	17.0 microns	0.669 mil	extruded at 4:1 BUR
Base Resin Melt Index	0.050 g/10 min	0.050 g/10 min	ASTM D1238

Mechanical Properties	Metric	English	Comments
Film Elongation at Break, MD	250 %	250 %	ASTM D882
Film Elongation at Break, TD	660 %	660 %	ASTM D882
Elmendorf Tear Strength, MD	0.300 g/micron	7.62 g/mil	ASTM D1922
Elmendorf Tear Strength, TD	3.00 g/micron	76.2 g/mil	ASTM D1922
Dart Drop	11.0 g/micron	279 g/mil	ASTM D1709
Film Tensile Strength at Break, MD	78.5 MPa	11400 psi	ASTM D882
Film Tensile Strength at Break, TD	53.9 MPa	7820 psi	ASTM D882
1% Secant Modulus, MD	1276 MPa	185000 psi	ASTM D882
1% Secant Modulus, TD	1179.0 MPa	171000 psi	ASTM D882

Processing Properties	Metric	English	Comments
Melt Temperature	180 - 240 Â°C	356 - 464 Â°F	
Blow-up Ratio (BUR)	4.0	4.0	

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