

Lotte Chemical Titan TITANEX[®] HF0961 High density polyethylene Hexene-1 resin

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

Material Notes:

HF0961 is a pelleted high molecular weight, high density polyethylene Hexene-1 resin for tubular film extrusion. Applications: Grocery sacks, shopping bags, liners notion and millinery bags. Advantages: High extrusion rate with high film strength and rigidity, excellent drawdown for high quality thin film. Information provided by Titan Chemicals

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lotte-Chemical-Titan-TITANEX-HF0961-High-density-polyethylene-Hexene-1-resin.php

Physical Properties	Metric	English	Comments
Base Resin Density	0.950 g/cc	0.0343 lb/in ³	ASTM D1505
Thickness	17.0 microns	0.669 mil	extruded at 4:1 BUR
Base Resin Melt Index	0.10 g/10 min	0.10 g/10 min	I ₂ ; ASTM D1238
	11 g/10 min	11 g/10 min	I ₂₁ ; ASTM D1238

Mechanical Properties	Metric	English	Comments
Film Elongation at Break, MD	250 %	250 %	ASTM D882
Film Elongation at Break, TD	700 %	700 %	ASTM D882
Elmendorf Tear Strength, MD	0.400 g/micron	10.2 g/mil	ASTM D1922
Elmendorf Tear Strength, TD	3.00 g/micron	76.2 g/mil	ASTM D1922
Dart Drop	8.00 g/micron	203 g/mil	ASTM D1709
Film Tensile Strength at Break, MD	58.8 MPa	8530 psi	ASTM D882
Film Tensile Strength at Break, TD	44.1 MPa	6400 psi	ASTM D882
1% Secant Modulus, MD	1176.8 MPa	170680 psi	ASTM D882
1% Secant Modulus, TD	1280 MPa	185000 psi	ASTM D882

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

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