



Product Data

TITANEX HF1161 FOR FILM

CHARACTER	Titanex HF1161 is a pelleted high density polyethylene for blown film extrusion. HF1161 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	Grocery sacks, shopping bags, T-shirt bags.
ADVANTAGES	High extrusion rate with high film strength and rigidity, excellent draw down for high quality thin film.

<u>TYPICAL RESIN PROPERTIES</u>	<u>UNIT</u>	<u>HF1161</u> ^(a)	<u>ASTM METHOD</u> ^(b)
Melt index, I ₂	g/10 min.	0.10	D 1238
Melt index, I ₂₁	g/10 min.	11	D 1238
Density	g/cm ³	0.943	D 1505

TYPICAL SHEET PROPERTIES ^(c)

Tensile Strength at Break MD/TD	kg/cm ²	700/500	D 882
Ultimate Elongation MD/TD	%	200/700	D 882
1% Secant Modulus MD/TD	kg/cm ²	10000/8000	D 882
Elmendorf Tear MD/TD	kJ/m ²	0.4/4	D 1922
Dart Impact Strength	g/μm	7	D 1709

(a) Values shown are typical and are not to be considered as specifications.

(b) ASTM test methods are latest under the Society's current procedures.

(c) Film properties are typical blown film of 17 microns extruded at 4:1 BUR.

Processing conditions

Melt temperature	: 180 - 240°C
BUR	: 4:1
Frost line height	: 7 - 12 times die diameter

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